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ABSTRACT

This publication is based on data obtained by the National Center for Education Statistics, U.S. Department of Education, from all accredited institutions of higher education. Data cover earned degrees conferred in the aggregate United States. Degree data are compiled for a 12-month period, July of one year through June of the following year. In this report the racial and ethnic categories among U.S. citizens who received degrees during the 1987-94 period are charted and tabulated. Findings indicate that the number of bachelor's degrees in science and engineering (S&E) fields awarded to underrepresented minority students showed robust growth in the early 1990s after a period of relatively slow growth from 1985 to 1990. (JRH)

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Science and Engineering Degrees, by Race/Ethnicity of Recipients:

1987-94

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Detailed Statistical Tables

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences
National Science Foundation

NSF 96-329

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Science and Engineering Degrees, by Race/Ethnicity of Recipients:

1987-94

Detailed Statistical Tables

Susan T. Hill, Author

Division of Science Resources Studies
Directorate for Social, Behavioral and Economic Sciences

National Science Foundation

NSF 96-329

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Contributors

Data collection, preparation, and tabulations were performed by Quantum Research Corp. for the National Science Foundation. The Project Officer for this report was Susan T. Hill.

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CONTENTS

Section		*Page*
General Notes		xi
A.	Data Highlights	1
B.	Technical Notes	5
C.	Statistical Charts	23
D.	Detailed Statistical Tables	35

General Notes

This publication is based on data obtained by the National Center for Education Statistics, U.S. Department of Education, from all accredited institutions of higher education. These data cover earned degrees conferred in the aggregate United States, which includes the 50 States, the District of Columbia, and the U.S. Territories and Outlying Areas (American Samoa, the former Canal Zone, the Northern Mariana Islands, Puerto Rico, the U.S. Virgin Islands, and the Trust Territory of the Pacific Islands). Degree data are compiled for a 12-month period, July of one year through June of the following year. For convenience, degrees for such a given 12-month period will be referred to by the year in which the period ended, e.g., 1994 means the 12-month period ending June 1994.

There were changes in the classification of fields between 1985–91 and 1992–93. See the Technical Notes for information on the field classifications used. Because racial/ethnic data were collected by broad fields of study only, the definition of science and engineering used by the National Science Foundation (NSF) for this report must include fields normally not included. There is one instance where this difference has a large impact—the broad field of "Social Sciences." The U.S. Department of Education includes the field of history in this broad category, so when it collects the racial/ethnic data, this field is included.

Before 1985, the broad category of "Engineering" included engineering technologies. This report is different from earlier reports in that it excludes engineering technologies so that trend data by race/ethnicity are more consistent with the definition of science and engineering used in other NSF reports. If the reader is interested in earlier data for science fields (that are consistent from 1977 to 1993), please request *Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1977–91*, NSF 94-306.

For more information, please contact—

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Section A.

Data Highlights

Trends in Bachelor's Degrees Awarded to Racial/Ethnic Minorities in Science and Engineering

The number of bachelor's degrees in science and engineering (S&E) fields awarded to underrepresented minority students showed robust growth in the early 1990s, after a period of relatively slow growth from 1985 to 1990. From 1990 to 1994, the number of baccalaureate recipients with degrees in S&E increased 44 percent for blacks, 47 percent for Hispanics, and 58 percent for American Indians. The percentage increases for underrepresented minority groups were higher than the percentage increases found among white recipients (10 percent) and Asian recipients (36 percent) (table A).

In 1994 there were similar numbers of black bachelor's degree recipients in S&E (26,289) and Asian recipients (26,420). The number of Hispanics earning bachelor's degrees in S&E fields hit an all-time high of 20,529, as did American Indians, 2,004.

Even with this growth, minority students still comprised 28 percent of the "college-age" population (18–24 years old) in 1994, whereas baccalaureates earned by underrepresented minority students accounted for only 12 percent of the total S&E degrees in 1994.

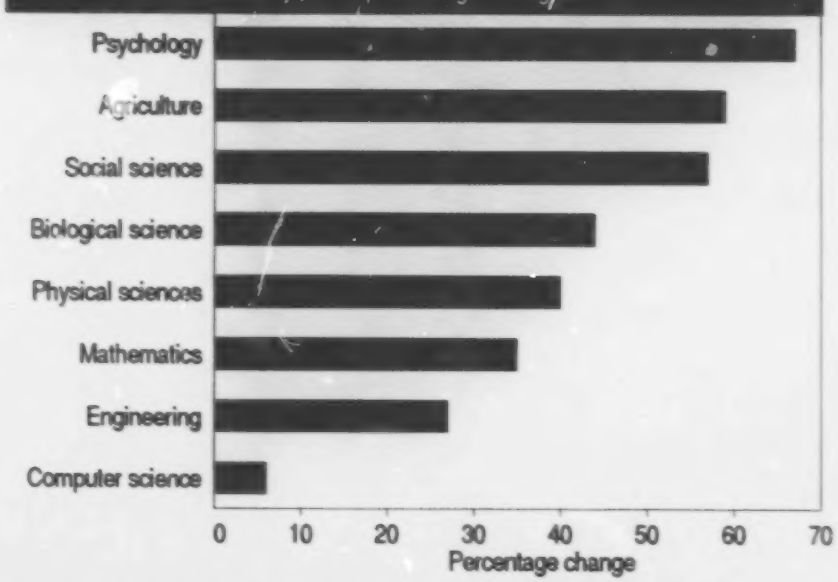
Among underrepresented minority groups, the increases in baccalaureate degrees vary by field of science or engineering. From 1990 to 1994 the percentage increases in baccalaureates awarded to underrepresented groups ranged from a 6-percent increase in computer science degrees to an increase of 67 percent in psychology degrees (chart A).

Table A. Science and engineering bachelor's degrees, by race/ethnicity of recipients: percentage change, 1985–90 and 1990–94

Race/ethnicity	1985–90	1990–94
White, non-Hispanics	-4	10
Asians or Pacific Islanders	46	36
Underrepresented minorities, total	10	46
Black, non-Hispanics	7	44
Hispanics	16	47
American Indians or Alaskan Natives	-8	58

SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

Chart A. Science and engineering degrees awarded to underrepresented minorities, by field: percentage change, 1990–94



SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

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Table. S&E bachelor's degree recipients, by broad field: percentage distribution, 1994

Race/ethnicity	Engineering	Natural sciences	Social sciences
Underrepresented minorities	12	29	59
Whites	15	31	54
Asians	25	39	36

SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

Degree awards have increased more in the social sciences, fields in which there is a slightly higher concentration of S&E bachelor's degree recipients among underrepresented minorities (59 percent) than among whites (54 percent).

Among S&E baccalaureate recipients in 1994, a slightly lower percentage of underrepresented minorities majored in engineering (12 percent) than did whites (15 percent), and the natural sciences (29 percent) than did whites (21 percent) (table B).

Although these slight differences exist, the gaps once found between the field choices of underrepresented minorities and whites have virtually disappeared. One-third of all bachelor's degree recipients of all racial/ethnic groups (except Asians, at 48 percent) chose S&E fields in 1994.

SECTION B.

TECHNICAL NOTES

INTRODUCTION

This report is based on final data from several Federal surveys. Two of them are the U.S. Department of Education's Survey of Degrees and Other Formal Awards Conferred, and the Completions Survey conducted annually by the National Center for Education Statistics (NCES) as part of the Higher Education General Information Survey (HEGIS), later renamed the Integrated Postsecondary Education Data System (IPEDS). The third is the Survey of Earned Doctorates, conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Each source is described in more detail in the following sections.

Data from the Survey of Degrees and Other Formal Awards Conferred and from the Completions Survey were used to report the number of bachelor's and master's degrees. The data on doctoral degrees in this report were derived from the Survey of Earned Doctorates, which surveyed all individuals earning research doctorates, rather than from the Completions Survey, which surveyed the institutions awarding the doctorates. The Earned Doctorate data were preferred because the data provided by individuals are more specific with respect to the field of specialization and are less likely to contain errors in data reporting and data entry than are the data provided by institutions. Furthermore, doctorate data provide 100 percent coverage for data by field and sex of individual recipients, whereas institutional data are subject to imputation for nonresponse. For a comparison of reporting on doctoral degrees in the Completions Survey and the Survey of Earned Doctorates, see National Science Foundation, *Science and Engineering Doctorates: 1960–91*, NSF 93-301, Detailed Statistical Tables (Washington, DC, 1993).

In this report the racial and ethnic categories among U.S. citizens who were degree recipients during the 1987–94 period are charted and tabulated. It is recognized that the concept of race/ethnicity is as much a socially constructed characteristic as a biological one. Scholars such as Farley and Allen have noted that "the sociological reality of race is more important than its biological reality. Race exerts a profound influence over the lives of people in this society."[1]

The following five racial/ethnic categories are required in Federal Government surveys of institutions:

Black, non-Hispanic
American Indian or Alaskan Native
Asian or Pacific Islander
Hispanic
White, non-Hispanic

Persons who are U.S. citizens or foreign citizens admitted for permanent residence are classified into the above categories. The ethnic category of Hispanic took precedence over the racial categories in the data collection. In addition, nonresident aliens, i.e., those admitted to the United States for temporary residence, are separately identified as a sixth category in the survey. The nonresident aliens are not to be reported in the aforementioned racial/ethnic groups.

The definitions for the racial/ethnic categories used in the survey are as follows:

Nonresident alien—A person who is not a citizen or national of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely. Resident aliens who are not citizens of the United States and who have been lawfully admitted for permanent residence (and who hold alien registration receipt cards—Form I-551/155) are to be reported in the appropriate racial/ethnic categories along with U.S. citizens.

Black, non-Hispanic—A person having origins in any of the black racial groups of Africa (except those of Hispanic origin).

American Indian or Alaskan Native—A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

[1] Richard Farley and Walter R. Allen, *The Color Line and the Quality of Life in America* (New York: Russell Sage Foundation, 1987), p. 6.

Asian or Pacific Islander—A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. These areas include, for example, China, Japan, Korea, the Philippine Islands, and Samoa.

Hispanic—A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

White, non-Hispanic—A person having origins in any of the original peoples of Europe, North Africa, or the Middle East (except those of Hispanic origin).

For the bachelor's and master's degree data, the manner of collecting racial and ethnic data is left to the discretion of the institution, provided that the system established results in reasonably accurate data. The information is gathered by NCES for the Office of Civil Rights, U.S. Department of Education, in compliance with title I of the Civil Rights Act of 1964 and title IX of the Education Amendments of 1972.

Bachelor's and Master's Degree Data

Bachelor's and master's degree data presented in this report were derived from a survey conducted by NCES—the Completions Survey.

This survey requested data on the number of associate's, bachelor's, master's, doctoral, and first-professional degrees conferred by institutions of higher education. The data were requested according to sex of recipient and field of study for each degree level. Data on the race/ethnicity of degree recipients were collected biennially by NCES for the Office of Civil Rights from 1987 through 1989 and annually since then. A major limitation is that data are collected only at the broad field level[2] and according to the Federal racial/ethnic designations of degree recipients.

The surveys were mailed to all accredited universities and colleges in the United States, including the U.S. Territories, for completion by the institution. Followup for nonresponse and editing was conducted by letter and telephone. The overall response rate for institutions of higher education ranged between 94 and 97 percent between 1987 and 1994.

Some institutions provided only the total number of completions, by award level and by sex; others provided the number of completions by award level, sex, and field but did not provide racial/ethnic data.

Imputations for the years 1987 through 1994 were computer generated. Imputations were developed for institutions that did not provide complete racial/ethnic data. Some of these institutions had reported total degrees awarded but not racial/ethnic data, and others had reported totals that were larger or smaller than the sum of the racial/ethnic components.

In the first case, wherein institutions did not report any racial/ethnic data by field, NCES imputed data on the basis of an earlier response for each institution, if available.

The following table indicates the percentage of imputed data in 1994, by award level and racial/ethnic category.

Race/ethnicity	Bachelor's	Master's
White	1.6	1.7
Black	1.5	1.4
Hispanic	1.2	1.9
Asian	1.8	4.6
American Indian	1.1	1.2
Nonresident alien	2.2	2.8
Unknown	1.9	5.6

In the second case, wherein racial/ethnic data were reported but did not add to the total degree recipients, NCES used to distribute the difference among the racial/ethnic groups for that institution. *Note:* This report, however, does not do that; unknowns are shown in the table.

In examining data on degrees awarded to minorities, it must be noted that 1 to 5 percent of all S&E degrees awarded in 1987–94 were awarded to individuals whose race/ethnicity was unknown. This unknown category could affect trends and observable changes in the number and share of awards received by

[2] Broad field level refers to the 2-digit program levels in U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs* (Washington, DC: GPO, 1991).

minority students, particularly if there are shifts from year to year in the number of degree recipients with unknown race/ethnicity. As tables 1–3 indicate, the share of degrees awarded to individuals whose race/ethnicity was unknown varied somewhat by degree level.

This National Science Foundation report differs from those published by NCES in that data for the U.S. Territories are included, whereas NCES excludes them from most of its published reports.

Doctoral Degree Data

In the Survey of Earned Doctorates, information is collected during the period of July 1 of one year to June 30 of the next from all persons who have fulfilled the requirements for a research doctorate. The survey is funded jointly by NSF and four other agencies: the U.S. Department of Education, the National Institutes of Health, the National Endowment for the Humanities, and the U.S. Department of Agriculture. The National Research Council sends the survey forms to all accredited doctorate-granting institutions for distribution by the graduate deans to all research doctorate recipients as they complete degree requirements. Information collected in the survey comprises demographic data, such as the student's sex, citizenship, and racial/ethnic group; education history, including field of degrees; sources of graduate student support; employment status during the year preceding receipt of the doctorate; postgraduation plans; and background on parents' education. Approximately 92 to 95 percent of the doctorate recipients complete and return the survey forms. For nonrespondents, commencement programs constituted a source of skeletal information that was added to the file. These variables were sex, field of study, institution, year of doctorate, and educational background. Data are updated annually from completed survey forms submitted belatedly by previous nonrespondents, so numbers may change slightly in the future updates.

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
SCIENCE AND ENGINEERING (S&E)	**SCIENCE AND ENGINEERING (S&E)**	**SCIENCE AND ENGINEERING (S&E)**
ENGINEERING	**ENGINEERING**	**ENGINEERING**
14 Engineering	14 Engineering	**Aeronautical/Astronautical Engineering**
		300 Aerospace, Aeronautical, and Astronautical Engineering
		Chemical Engineering
		312 Chemical Engineering
		366 Petroleum Engineering
		369 Polymer and Plastics Engineering
		547 Fuel Technology and Petroleum Engineering
		Civil Engineering
		315 Civil Engineering
		336 Environmental Health Engineering
		Electrical Engineering
		318 Communications Engineering
		321 Computer Engineering
		322 Electrical Engineering
		323 Electronics Engineering
		324 Electrical and Electronics Engineering
		Industrial Engineering
		339 Industrial and Manufacturing Engineering
		Mechanical Engineering
		327 Engineering Mechanics
		345 Mechanical Engineering

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		Materials/Metallurgical Engineering 309 Ceramic Sciences 342 Materials Science 348 Metallurgical Engineering **Other Engineering** 303 Agricultural Engineering 306 Bioengineering and Biomedical Engineering 330 Engineering Physics 333 Engineering Science 351 Mining and Mineral Engineering 354 Naval Architecture and Marine Engineering 357 Nuclear Engineering 360 Ocean Engineering 363 Operations Research 372 Systems Engineering 375 Textile Engineering 398 Engineering, General 399 Engineering, Other
SCIENCES NATURAL SCIENCES **Physical Science** 40 Physical Sciences (Includes Earth/Atmospheric/ Oceanographic Sciences)	**SCIENCES** NATURAL SCIENCES **Physical Science** 40 Physical Sciences (Includes Earth/ Atmospheric/Ocean-ographic Sciences)	**SCIENCES** PHYSICAL SCIENCES **Astronomy** 500 Astronomy 505 Astrophysics 506 Astronomy and Astrophysics **Chemistry** 520 Analytical Chemistry 521 Agricultural and Food Chemistry 522 Inorganic Chemistry 524 Nuclear Chemistry 526 Organic Chemistry 528 Pharmaceutical Chemistry 530 Physical Chemistry 532 Polymer Chemistry 534 Theoretical Chemistry

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		538 Chemistry, General 539 Chemistry, Other **Physics** 560 Acoustics 561 Chemical and Atomic/ Molecular Physics 562 Electron Physics 563 Electromagnetic Physics 564 Elementary Particle Physics 566 Fluids 567 Mechanics 568 Nuclear Physics 569 Optics 570 Plasma and High-Temperature Physics 572 Polymer Physics 573 Thermal Physics 574 Solid State and Low-Temperature Physics 575 Theoretical Physics 578 Physics, General 579 Physics, Other **Other Physical Sciences** 599 Physical Sciences, Other **Atmospheric Sciences** 510 Atmospheric Physics and Chemistry 512 Atmospheric Dynamics 514 Meteorology 518 Atmospheric Science/ Meteorology, General 519 Atmospheric Science/ Meteorology, Other **Geosciences** 540 Geology 542 Geochemistry 544 Geophysics and Seismology 545 Geophysics (Solid Earth) 546 Paleontology 548 Mineralogy and Petrology

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		549 Mineralogy, Petrology, and Geochemistry 550 Stratigraphy and Sedimentation 552 Geomorphology and Glacial Geology 554 Applied Geology 555 Applied Geology and Geological Engineering 558 Geological and Related Sciences, General 559 Geological and Related Sciences, Other 585 Hydrology and Water Resources **Oceanography** 590 Oceanography 595 Marine Sciences **Other Environmental Sciences** 580 Environmental Science
Mathematical Science 27 Mathematics	**Mathematical Science** 27 Mathematics	MATHEMATICAL/COMPUTER SCIENCES **Mathematics** 420 Applied Mathematics 425 Algebra 430 Analysis and Functional Analysis 435 Geometry 440 Logic 445 Number Theory 450 Mathematical Statistics 455 Topology 460 Computing Theory and Practice 465 Operations Research 498 Mathematics, General 499 Mathematics, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
Computer Science	**Computer Science**	**Computer Science**
11 Computer and Information Sciences	11 Computer and Information Sciences	400 Computer Science 410 Information Science and Systems
		BIOLOGICAL/AGRICULTURAL SCIENCES
Agricultural Science	**Agricultural Science**	**Agricultural Sciences**
02 Agricultural Sciences 03 Renewable Natural Resources	02 Agricultural Sciences 03 Conservation and Renewable Natural Resources	005 Animal Breeding and Genetics 007 Animal Husbandry 010 Animal Nutrition 012 Dairy Science 014 Poultry Science 019 Animal Sciences, Other 020 Agronomy and Crop Science 025 Plant Breeding and Genetics 030 Plant Pathology 032 Plant Protection/Pest Management 039 Plant Sciences, Other 040 Food Sciences 042 Food Distribution 043 Food Engineering 044 Food Sciences, Other 045 Soil Sciences 046 Soil Chemistry and Microbiology 049 Soil Sciences, Other 050 Horticulture Science 054 Fish and Wildlife 055 Fisheries Science and Management 060 Wildlife Management 065 Forestry Sciences 066 Forest Biology 068 Forest Engineering 070 Forest Management 072 Wood Science and Pulp/ Paper Technology 074 Conservation and Renewable Natural Resources 079 Forestry and Related Sciences

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		080 Wildlife and Range Management
		098 Agricultural Science, General
		099 Agricultural Science, Other
Biological Science	**Biological Science**	**Biological Sciences**
26 Biological Sciences/Life Sciences	26 Biological Sciences/Life Sciences	100 Biochemistry
		105 Biophysics
		107 Biotechnology Research
		110 Bacteriology
		115 Plant Genetics
		120 Plant Pathology
		125 Plant Physiology
		129 Botany, Other
		130 Anatomy
		133 Biometrics and Biostatistics
		136 Cell Biology
		139 Ecology
		140 Hydrobiology
		142 Embryology
		145 Endocrinology
		148 Entomology
		151 Biological Immunology
		154 Molecular Biology
		156 Microbiology and Bacteriology
		157 Microbiology
		160 Neuroscience
		163 Nutritional Sciences
		166 Parasitology
		169 Toxicology
		170 Genetics, Human and Animal
		171 Genetics
		175 Pathology, Human and Animal
		180 Pharmacology, Human and Animal
		185 Physiology, Human and Animal
		186 Animal and Plant Physiology
		189 Zoology, Other
		198 Biological Sciences, General
		199 Biological Sciences, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
SOCIAL SCIENCES	SOCIAL SCIENCES	SOCIAL SCIENCES
		Economics
		000 Agricultural Economics
		666 Economics
		668 Econometrics
		Political Science
		674 International Relations/Affairs
		678 Political Science and Government
		679 Political Science and Public Administration
		682 Public Policy Analysis
		976 Public Administration
		Sociology
		662 Demography and Population Studies
		686 Sociology
Social Science	**Social Science**	**Other Social Sciences**
05 Area and Ethnic Studies	05 Area, Ethnic, and Cultural Studies	650 Anthropology
45 Social Sciences	45 Social Sciences and History	652 Area Studies
		658 Criminology
		670 Geography
		690 Statistics
		694 Urban Affairs/Studies
		698 Social Sciences, General
		699 Social Sciences, Other
		710 History and Philosophy of Science and Technology
		729 Linguistics
		770 American Studies
		773 Archeology
Psychology	**Psychology**	**Psychology**
42 Psychology	42 Psychology	600 Clinical Psychology
		603 Cognitive Psychology and Psycholinguistics
		606 Comparative Psychology
		609 Counseling Psychology
		612 Developmental and Child Psychology
		615 Experimental Psychology

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		616 Experimental, Physiological Psychology
		618 Educational Psychology
		619 Human Engineering
		621 Industrial and Organizational Psychology
		624 Personality Psychology
		627 Physiological Psychology/ Psychobiology
		630 Psychometrics
		633 Quantitative Psychology
		636 School Psychology
		639 Social Psychology
		648 Psychology, General
		649 Psychology, Other
NON-S&E	**NON-S&E**	**NON-S&E**
01 Agribusiness and Agricultural Production	01 Agricultural Business and Production	**MEDICAL SCIENCES**
04 Architecture and Environmental Design	04 Architecture and Related Programs	205 Dentistry
06 Business and Management	08 Marketing Operations/ Marketing and Distribution	210 Environmental Health
07 Business (Administrative Support), Other	09 Communications	215 Public Health
08 Marketing and Distribution	10 Communications Technologies	219 Public Health and Epidemiology
09 Communications	12 Personal and Miscellaneous Services	220 Epidemiology
12 Consumer, Personal, and Miscellaneous Services	13 Education	225 Medicine and Surgery
13 Education	15 Engineering-Related Technologies	235 Optometry and Ophthalmology
16 Foreign Languages	16 Foreign Languages and Literatures	240 Pharmacy
17 Allied Health	17 Allied Health	250 Veterinary Science
18 Health Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic)		**OTHER SCIENCES**
19 Home Economics		200 Speech/Language Pathology and Audiology
20 Vocational Home Economics		212 Health Systems/Services Administration
		224 Hospital Administration
		230 Nursing
		245 Rehabilitation/Therapeutic Services
		298 Health Sciences, General
		299 Health Sciences, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
22 Law	18 Health Professions and Related Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic, Allied Health)	**HISTORY**
23 Letters	19 Home Economics	700 History, American
24 Liberal/General Studies	20 Vocational Home Economics	705 History, European
25 Library and Archival Sciences	22 Law and Legal Studies	718 History, General
28 Military Sciences	23 English Language and Literature/Letters	719 History, Other
29 Military Technologies	24 Liberal/General Studies	**ENGLISH AND LITERATURE**
30 Multi-/Interdisciplinary Studies	25 Library and Archival Sciences	720 Classics
31 Parks and Recreation	28 Reserve Officer Training Corps (ROTC)	723 Comparative Literature
38 Philosophy and Religion	29 Military Technologies	725 English and American Literature
39 Theology	30 Multi-/Interdisciplinary Studies	732 Literature, American
41 Science Technologies	31 Parks, Recreation, Leisure, and Fitness Studies	733 Literature, English
44 Public Affairs (Does not include Parks and Recreation Management, and Law Enforcement and Correction)	38 Philosophy and Religion	734 English Language
43 Protective Services	39 Theological Studies and Religious Vocations	736 Speech and Rhetorical Studies
46 Construction Trades	41 Science Technologies	738 Letters, General
47 Mechanics and Repairers	43 Protective Services	739 Letters, Other
48 Precision Production	44 Public Administration and Services (Does not include Parks and Recreation Management, and Law Enforcement and Correction)	**FOREIGN LANGUAGES**
49 Transportation and Material Moving	46 Construction Trades	740 French
50 Visual and Performing Arts	47 Mechanics and Repairers	743 German
	48 Precision Production Trades	746 Italian
	49 Transportation and Materials Moving Workers	749 Spanish
	50 Visual and Performing Arts	752 Russian
	52 Business Management and Administrative Services	755 Slavic (Other than Russian)
		758 Chinese
		762 Japanese
		765 Hebrew
		768 Arabic
		769 Other Languages and Literature
		OTHER HUMANITIES
		785 Philosophy (See also 440)
		798 Humanities, General
		799 Humanities, Other
		RELIGION AND THEOLOGY
		790 Religion (See also 984)
		791 Religion and Theology
		984 Theology/Religious Education (See also 790)

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Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		825 School Psychology (See also 636)
		830 Social/Philosophical Foundations of Education
		835 Special Education
		840 Counseling Education/ Counseling and Guidance Services
		845 Education Evaluation and Research
		850 Pre-elementary/Early Childhood Teacher Education
		852 Elementary Teacher Education
		854 Junior High Teacher Education
		856 Secondary Teacher Education
		858 Adult and Continuing Teacher Education
		861 Art Education
		862 Business Education
		864 English Education
		866 Foreign Languages Education
		867 Physical Education, Health, and Recreation
		870 Home Economics Education
		876 Music Education
		880 Physical Education and Coaching
		882 Reading Education
		886 Speech Education
		888 Trade and Industrial Education
		889 Teacher Education, Specific Academic and Vocational Programs, Other
		898 Education, General
		899 Education, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		BUSINESS AND MANAGEMENT 002 Agricultural Business and Management 900 Accounting 905 Banking/Financial Support Services 910 Business Administration and Management 915 Business/Managerial Economics 917 Management Information Systems/Business Data Processing 920 Marketing Management and Research 925 Business Statistics 930 Operations Research (See also 363, 465) 935 Organizational Behavior (See also 621) 938 Business Management/ Administrative Services, General 939 Business Management/ Administrative Services, Other
		INFORMATION FIELDS (JOURNALISM, BROADCASTING, LIBRARIANSHIP) 940 Communications Research 945 Journalism 947 Mass Communications 950 Radio and Television 957 Communication Theory 958 Communications, General 959 Communications, Other 972 Library Science
		LAW 968 Law

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–94	Fields of study from the Survey of Earned Doctorates classification
		SOCIAL SERVICE PROFESSIONS
		980 Social Service Professions
		VOCATIONAL STUDIES AND HOME ECONOMICS
		964 Home Economics
		OTHER NON-SCIENCE FIELDS
		974 Parks/Recreation/ Leisure/Fitness
		988 Professional Fields, General
		989 Professional Fields, Other
		999 Other Fields

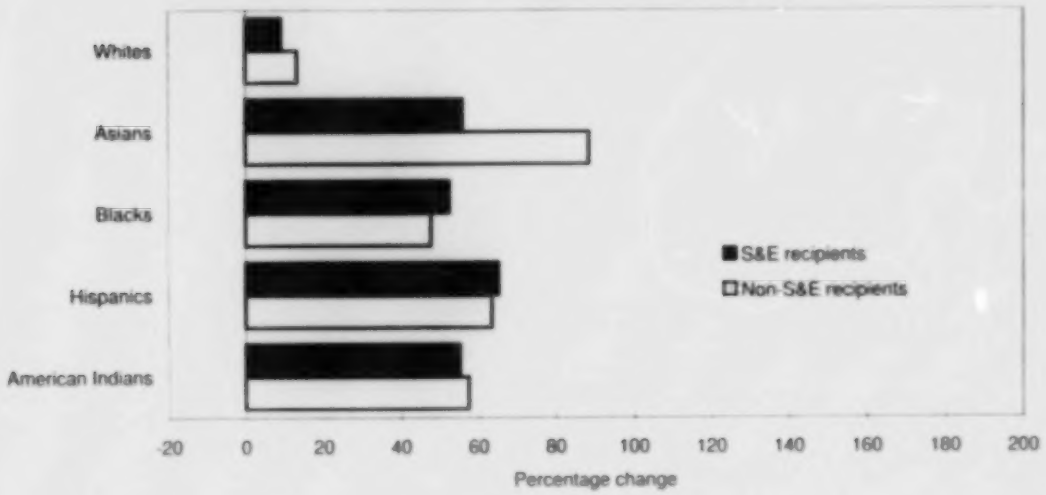
SECTION C.

STATISTICAL CHARTS

List of Charts

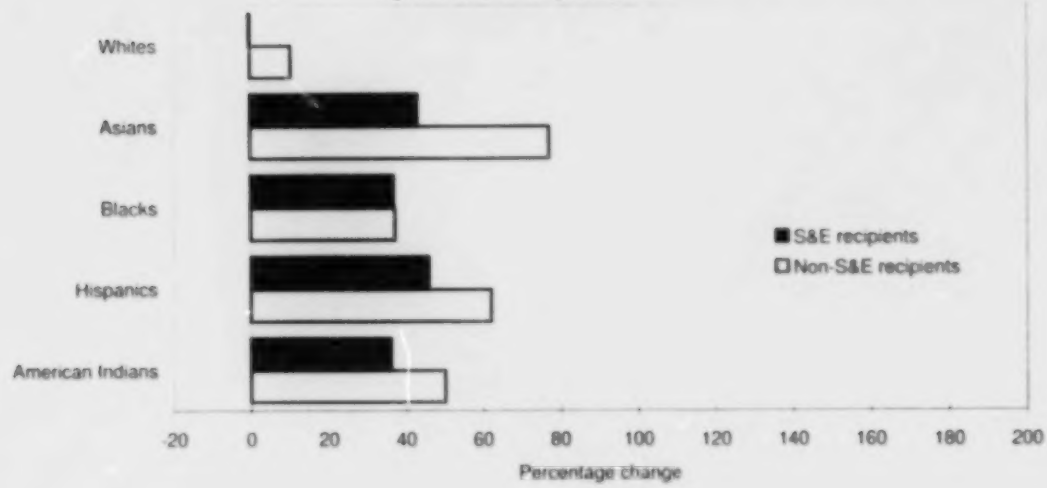
Chart		*Page*
1.	Percentage change in science and engineering and non-S&E bachelor's degrees, by race/ethnicity: 1987–94	27
2.	Percentage change in science and engineering and non-S&E bachelor's degrees awarded to men, by race/ethnicity: 1987–94	27
3.	Percentage change in science and engineering and non-S&E bachelor's degrees awarded to women, by race/ethnicity: 1987–94	28
4.	Percentage change in science and engineering and non-S&E master's degrees, by race/ethnicity: 1987–94	28
5.	Percentage change in science and engineering and non-S&E master's degrees awarded to men, by race/ethnicity: 1987–94	29
6.	Percentage change in science and engineering and non-S&E master's degrees awarded to women, by race/ethnicity: 1987–94	29
7.	Percentage change in science and engineering and non-S&E doctoral degrees, by race/ethnicity: 1987–94	30
8.	Percentage change in science and engineering and non-S&E doctoral degrees awarded to men, by race/ethnicity: 1987–94	30
9.	Percentage change in science and engineering and non-S&E doctoral degrees awarded to women, by race/ethnicity: 1987–94	31
10.	Number of earned science and engineering degrees awarded to whites, by degree level: 1987–94	31
11.	Number of earned science and engineering bachelor's degrees awarded to minority groups: 1987–94	32
12.	Number of earned science and engineering master's degrees awarded to minority groups: 1987–94	32
13.	Number of earned science and engineering doctoral degrees awarded to minority groups: 1987–94	33
14.	Percentage of blacks earning science and engineering degrees from historically black colleges and universities, by degree level: 1994	33
15.	Percentage of Hispanics earning science and engineering degrees from institutions in Puerto Rico, by degree level: 1994	34

Chart 1. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees, by race/ethnicity: 1987-94



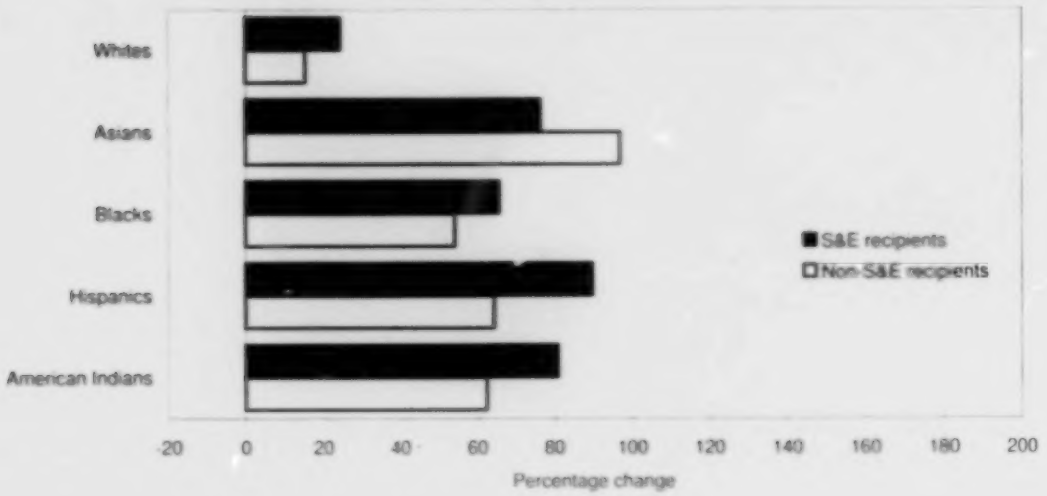
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94

Chart 2. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to men, by race/ethnicity: 1987-94



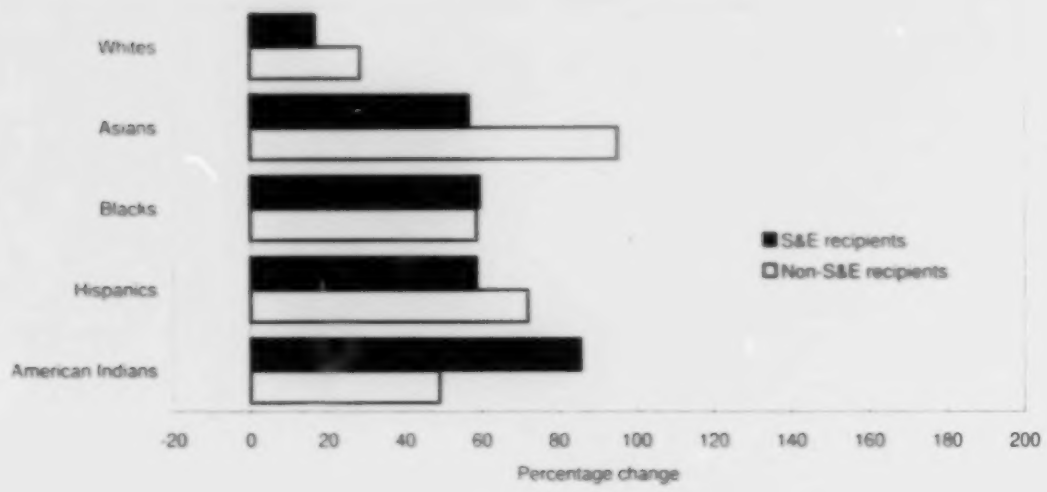
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94

Chart 3. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to women, by race/ethnicity: 1987-94



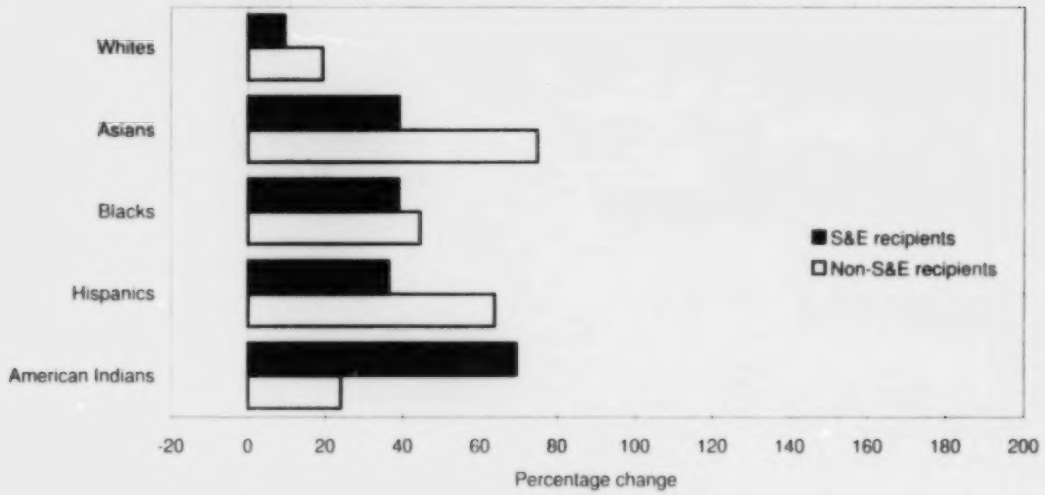
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94

Chart 4. Percentage change in science and engineering (S&E) and non-S&E master's degrees, by race/ethnicity: 1987-94



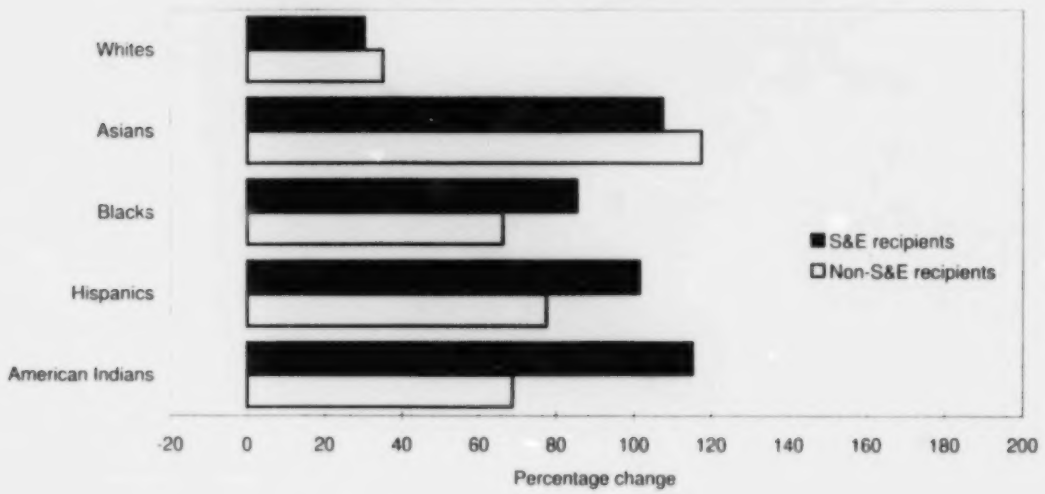
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94

Chart 5. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to men, by race/ethnicity: 1987-94



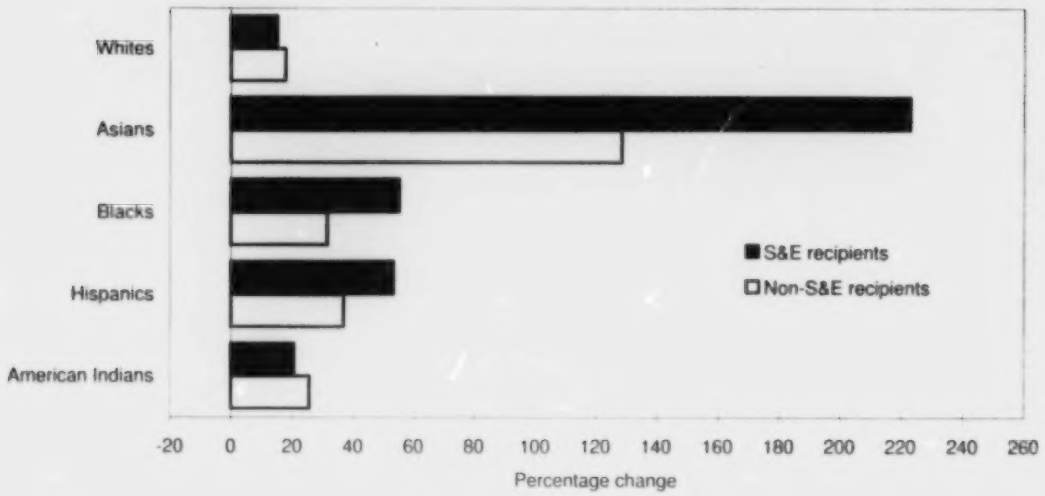
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94

Chart 6. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to women, by race/ethnicity: 1987-94



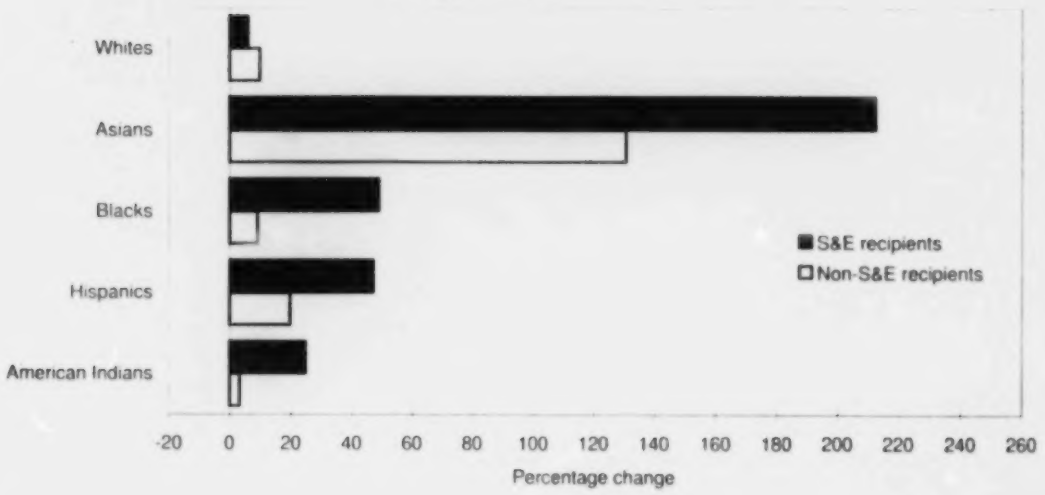
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94

Chart 7. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees, by race/ethnicity: 1987-94



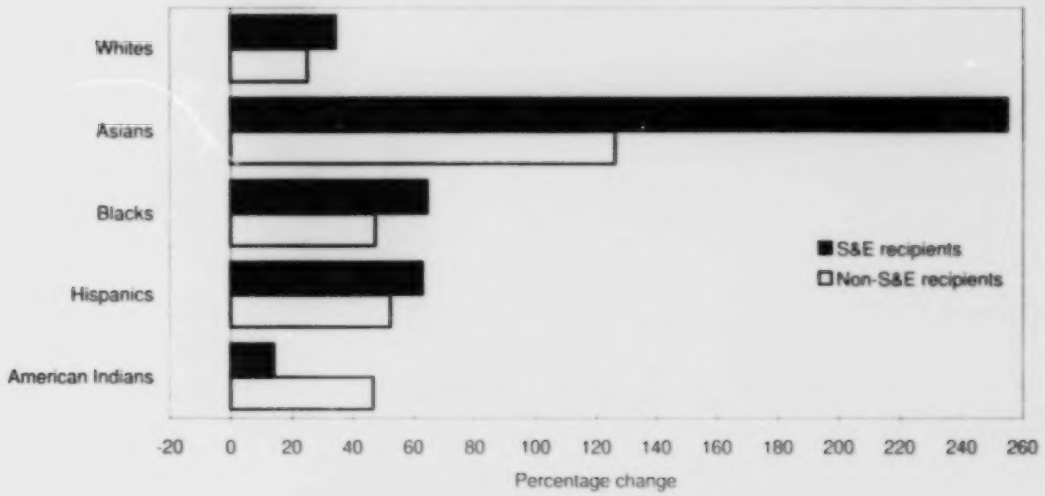
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 8. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to men, by race/ethnicity: 1987-94



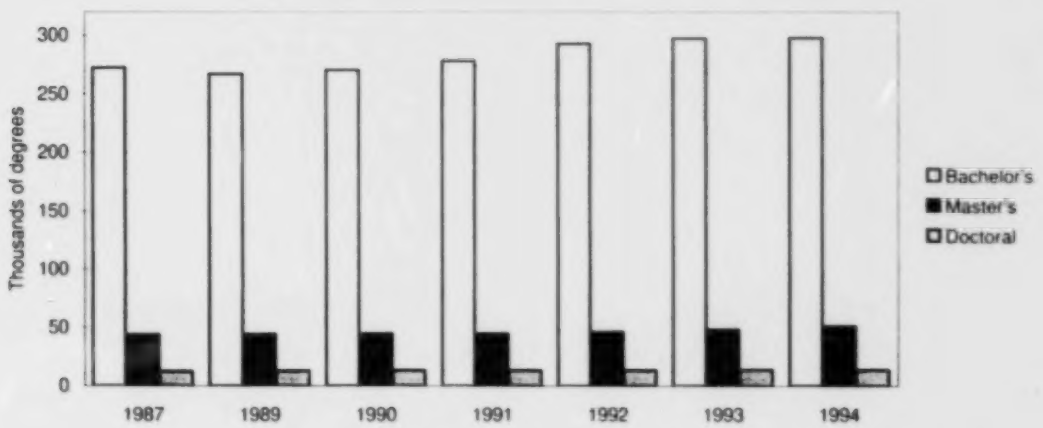
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 9. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to women, by race/ethnicity: 1987-94



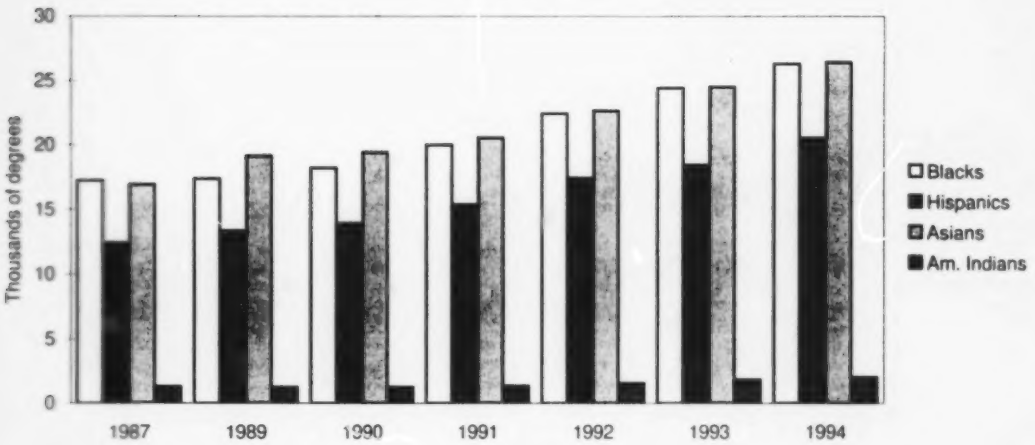
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 10. Number of earned science and engineering degrees awarded to whites, by degree level: 1987-94



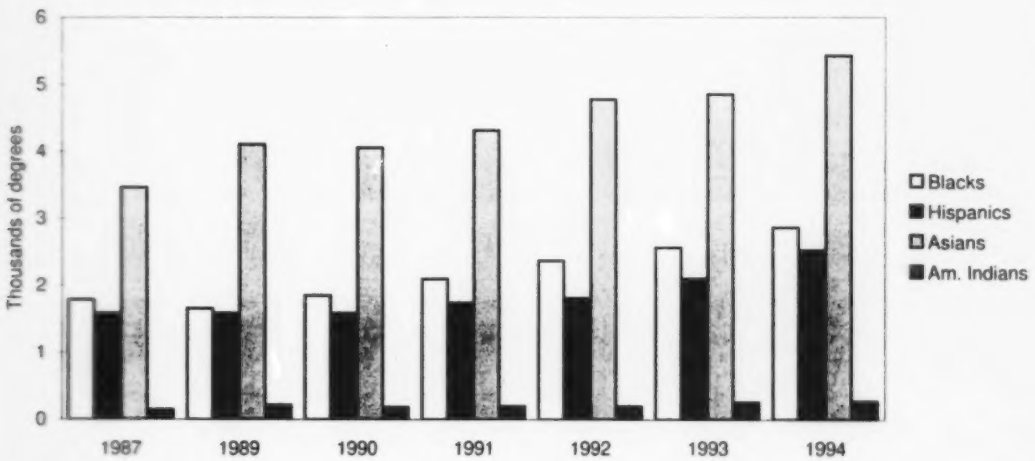
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; IPEDS Completions Surveys, 1987-94; doctoral data from NSF/SRS Survey of Earned Doctorates

Chart 11. Number of earned science and engineering bachelor's degrees awarded to minority groups: 1987-94



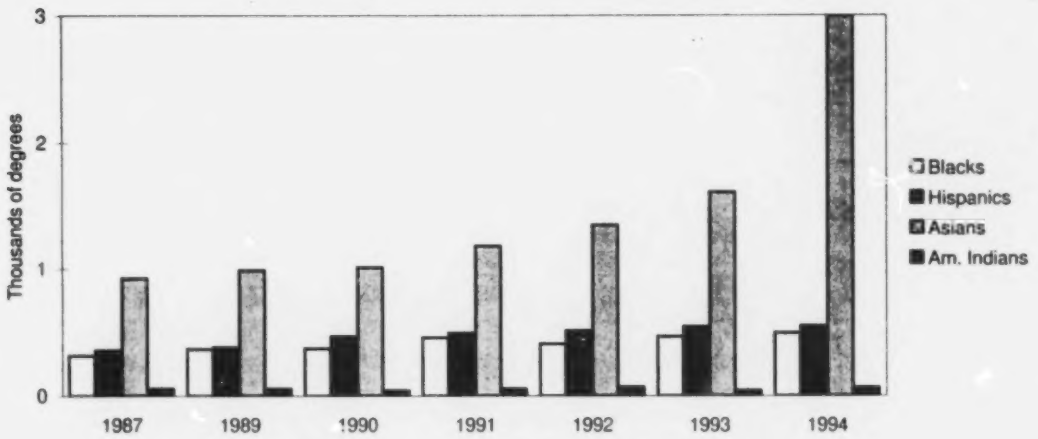
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94

Chart 12. Number of earned science and engineering master's degrees awarded to minority groups: 1987-94



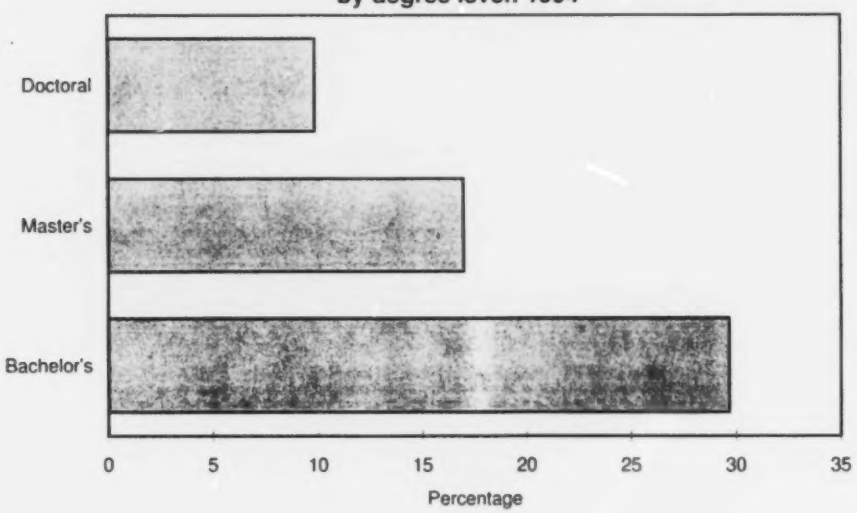
SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94

Chart 13. Number of earned science and engineering doctoral degrees awarded to minority groups: 1987-94



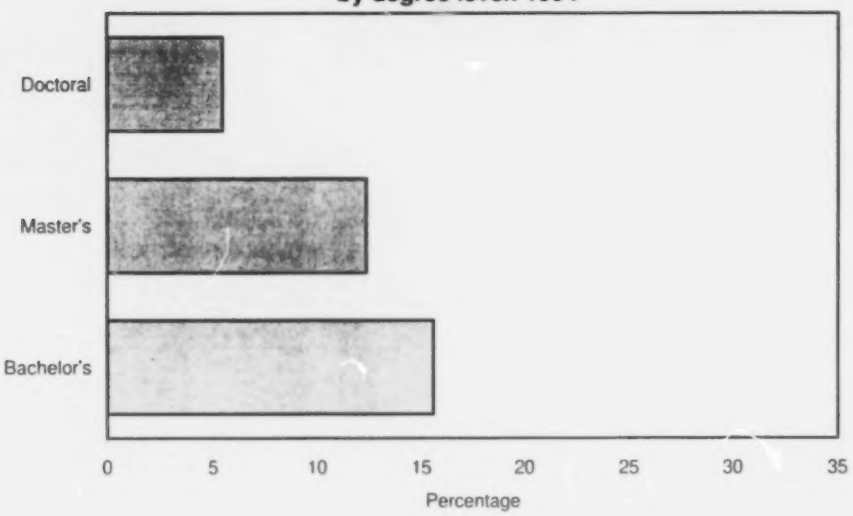
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart 14. Percentage of blacks earning science and engineering degrees from historically black colleges and universities, by degree level: 1994



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; IPEDS Completions Surveys, 1987-94; doctoral data from NSF/SRS Survey of Earned Doctorates

Chart 15. Percentage of Hispanics earning science and engineering degrees from institutions in Puerto Rico, by degree level: 1994



SOURCES: Chart by National Science Foundation/SRS; data from National Center for Education Statistics; IPEDS Completions Surveys, 1987-94; doctoral data from NSF/SRS Survey of Earned Doctorates

SECTION D.

DETAILED STATISTICAL TABLES

List of Tables

Table *Page*

1. Percentage distribution of earned bachelor's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1987–94, selected years 41

2. Percentage distribution of earned master's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1987–94, selected years 42

3. Percentage distribution of earned doctoral degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1987–94, selected years 43

4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1987–94, selected years 44

5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1987–94, selected years 48

6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1987–94, selected years 52

7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1987–94, selected years 56

8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1987–94, selected years 60

9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1987–94, selected years 64

10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1987–94, selected years 68

11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1987–94, selected years 72

12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1987–94, selected years 76

13. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1987–94, selected years 80

14. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1987–94, selected years 81

Table *Page*

15. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1987–94, selected years 82

16. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1987–94, selected years 83

17. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1987–94, selected years 84

18. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1987–94, selected years 85

19. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1987–94, selected years 86

20. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1987–94, selected years 87

21. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1987–94, selected years 88

22. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1987–94, selected years 89

23. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1987–94, selected years 90

24. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1987–94, selected years 91

25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1987–94, selected years 92

26. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1987–94, selected years 93

27. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1987–94, selected years 94

Table *Page*

28. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1987–94, selected years 95

29. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1987–94, selected years 96

30. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1987–94, selected years 97

31. Number of earned bachelor's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1987–94 98

32. Number of earned master's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1987–94 99

33. Number of earned bachelor's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987–94 100

34. Number of earned master's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987–94 101

35. Number of earned doctoral degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987–94 102

36. First-professional degrees awarded, by race/ethnicity and sex of recipient: 1987–94 103

37. First-professional degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987–94 104

38. First-professional degrees awarded in non-health fields, by race/ethnicity and sex of recipient: 1987–94 105

Table 1. Percentage distribution of earned bachelor's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1987-94, selected years

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	96.0	96.3	96.4	96.4	96.8	96.4	96.5
White, non-Hispanics	79.3	79.1	78.1	78.0	77.6	76.5	75.3
Asians	4.9	5.7	5.6	5.8	6.0	6.3	6.7
Underrepresented minorities, total	9.0	9.5	9.7	10.3	11.0	11.5	12.3
Black, non-Hispanics	5.0	5.2	5.3	5.6	6.0	6.3	6.6
Hispanics	3.6	3.9	4.0	4.3	4.6	4.7	5.2
American Indians or Alaskan Natives	.4	.4	.4	.4	.4	.5	.5
U.S. citizens and permanent residents, unknown race/ethnicity	2.7	2.1	3.0	2.4	2.1	2.1	2.2
Nonresident aliens[2]	4.0	3.7	3.6	3.6	3.2	3.6	3.5
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	95.1	95.4	95.5	95.5	96.0	95.6	95.6
White, non-Hispanics	79.9	79.8	78.9	78.8	78.5	77.5	76.3
Asians	5.0	5.8	5.8	5.9	6.3	6.6	6.9
Underrepresented minorities, total	7.5	7.9	8.0	8.5	9.0	9.4	10.2
Black, non-Hispanics	3.8	3.9	3.9	4.2	4.5	4.7	5.0
Hispanics	3.4	3.7	3.7	3.9	4.2	4.3	4.7
American Indians or Alaskan Natives	.4	.3	.3	.3	.4	.4	.5
U.S. citizens and permanent residents, unknown race/ethnicity	2.6	1.9	2.9	2.4	2.2	2.2	2.2
Nonresident aliens[2]	4.9	4.6	4.5	4.5	4.0	4.4	4.4
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	97.5	97.6	97.7	97.6	97.7	97.5	97.5
White, non-Hispanics	78.4	78.1	77.2	77.0	76.6	75.3	74.0
Asians	4.8	5.5	5.4	5.5	5.6	6.0	6.4
Underrepresented minorities, total	11.3	11.7	12.0	12.7	13.4	14.1	15.0
Black, non-Hispanics	6.9	7.0	7.1	7.4	7.8	8.2	8.7
Hispanics	4.0	4.3	4.4	4.8	5.2	5.3	5.8
American Indians or Alaskan Natives	.4	.4	.4	.4	.5	.5	.6
U.S. citizens and permanent residents, unknown race/ethnicity	3.0	2.4	3.1	2.4	2.1	2.1	2.1
Nonresident aliens[2]	2.5	2.4	2.3	2.4	2.3	2.5	2.5

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Details may not sum to totals due to rounding.

Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

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Table 2. Percentage distribution of earned master's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1987-94, selected years

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	80.5	78.5	77.4	76.6	76.4	75.3	75.7
White, non-Hispanics	64.9	62.5	61.5	61.1	59.9	58.9	58.9
Asians	5.2	5.8	5.6	5.9	6.3	6.0	6.3
Underrepresented minorities, total	5.3	4.9	5.0	5.5	5.7	6.0	6.5
Black, non-Hispanics	2.7	2.3	2.6	2.9	3.1	3.1	3.3
Hispanics	2.4	2.3	2.2	2.4	2.4	2.6	2.9
American Indians or Alaskan Natives	.2	.3	.3	.3	.3	.3	.3
U.S. citizens and permanent residents, unknown race/ethnicity	5.1	5.3	5.2	4.0	4.5	4.4	4.0
Nonresident aliens[2]	19.5	21.5	22.6	23.4	23.6	24.7	24.3
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	76.9	74.8	73.8	72.6	72.5	71.1	71.6
White, non-Hispanics	61.7	58.9	58.3	57.9	56.5	55.5	55.6
Asians	5.6	6.2	5.8	6.2	6.6	6.1	6.4
Underrepresented minorities, total	4.7	4.2	4.1	4.5	4.7	5.0	5.3
Black, non-Hispanics	2.2	1.8	2.0	2.2	2.3	2.4	2.5
Hispanics	2.3	2.0	2.0	2.1	2.1	2.4	2.6
American Indians or Alaskan Natives	.2	.3	.2	.2	.2	.2	.3
U.S. citizens and permanent residents, unknown race/ethnicity	5.0	5.5	5.5	4.1	4.7	4.5	4.2
Nonresident aliens[2]	23.1	25.2	26.2	27.4	27.5	28.9	28.4
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	88.1	86.3	84.7	84.2	83.7	83.1	83.3
White, non-Hispanics	72.0	70.0	68.1	67.3	66.4	65.3	64.9
Asians	4.2	5.1	5.3	5.4	5.6	5.7	6.1
Underrepresented minorities, total	6.5	6.4	6.8	7.6	7.6	8.0	8.7
Black, non-Hispanics	3.8	3.4	3.8	4.2	4.5	4.6	4.8
Hispanics	2.5	2.7	2.6	3.0	2.8	3.0	3.6
American Indians or Alaskan Natives	.2	.3	.4	.4	.3	.4	.4
U.S. citizens and permanent residents, unknown race/ethnicity	5.3	4.7	4.6	3.9	4.1	4.2	3.6
Nonresident aliens[2]	11.9	13.7	15.3	15.8	16.3	16.9	16.7

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Details may not sum to totals due to rounding.

Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

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Table 3. Percentage distribution of earned doctoral degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1987-94, selected years

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	70.6	67.1	67.2	66.2	64.6	65.1	69.4
White, non-Hispanics	60.6	57.5	57.6	55.5	54.0	54.0	53.0
Asians	4.6	4.5	4.4	4.9	5.4	6.3	11.4
Underrepresented minorities, total	3.7	3.7	3.9	4.2	4.0	4.1	4.2
Black, non-Hispanics	1.6	1.7	1.6	1.9	1.6	1.8	1.9
Hispanics	1.8	1.8	2.0	2.0	2.1	2.1	2.1
American Indians or Alaskan Natives	.3	.2	.2	.2	.3	.2	.2
U.S. citizens and permanent residents, unknown race/ethnicity	1.8	1.4	1.3	1.7	1.1	.7	.8
Nonresident aliens[2]	22.5	24.8	26.7	31.8	32.8	31.9	28.7
Citizenship unknown	6.9	8.0	4.1	1.9	2.6	3.0	1.9
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	66.0	61.9	61.7	60.4	58.9	59.3	63.9
White, non-Hispanics	56.4	52.6	52.4	50.2	49.0	49.0	47.8
Asians	4.8	4.8	4.6	4.7	5.3	6.1	11.9
Underrepresented minorities, total	3.0	3.0	3.3	3.6	3.3	3.4	3.5
Black, non-Hispanics	1.3	1.4	1.4	1.6	1.3	1.5	1.5
Hispanics	1.5	1.5	1.8	1.8	1.8	1.8	1.7
American Indians or Alaskan Natives	.2	.2	.2	.2	.2	.1	.2
U.S. citizens and permanent residents, unknown race/ethnicity	1.9	1.5	1.4	1.8	1.3	.8	.8
Nonresident aliens[2]	26.8	29.5	33.9	37.5	38.3	37.4	33.9
Citizenship unknown	7.2	8.6	4.4	2.1	2.8	3.3	2.1
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	83.3	80.6	81.3	80.7	78.8	78.7	82.0
White, non-Hispanics	72.1	70.2	71.0	68.4	66.4	65.5	65.1
Asians	4.3	3.9	4.0	5.4	5.9	6.9	10.4
Underrepresented minorities, total	5.5	5.4	5.4	5.7	5.7	5.9	5.9
Black, non-Hispanics	2.4	2.5	2.3	2.8	2.4	2.7	2.7
Hispanics	2.7	2.5	2.8	2.7	2.9	2.9	2.9
American Indians or Alaskan Natives	.4	.3	.3	.3	.4	.2	.3
U.S. citizens and permanent residents, unknown race/ethnicity	1.3	1.0	1.0	1.2	.8	.4	.6
Nonresident aliens[2]	10.6	12.8	15.4	17.7	19.1	19.0	16.7
Citizenship unknown	6.1	6.6	3.3	1.5	2.1	2.3	1.3

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: Details may not sum to totals due to rounding.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	343,070	337,431	345,793	356,785	376,933	388,435	395,380
Engineering	74,423	66,947	64,703	62,186	61,898	62,670	62,962
Sciences	268,647	270,484	281,090	294,599	315,035	325,765	332,418
Natural sciences	125,371	109,350	105,234	105,595	111,108	116,742	122,792
Physical science[1]	20,155	17,329	16,203	16,407	17,076	17,691	18,525
Mathematical science	16,515	15,314	14,674	14,784	14,851	14,870	14,431
Computer science	39,927	30,963	27,695	25,410	24,854	24,477	24,458
Biological science	39,047	36,949	38,040	40,351	43,835	47,877	52,213
Agricultural science	9,727	8,795	8,622	8,643	10,492	11,827	13,165
Social sciences	143,276	161,134	175,856	189,004	203,927	209,023	209,626
Social science	100,081	112,180	121,838	130,111	139,884	141,772	139,858
Psychology	43,195	48,954	54,018	58,893	64,043	67,251	69,768
Non-S&E[2]	660,462	692,740	716,358	751,212	773,139	790,843	787,761
Grand total	1,003,532	1,030,171	1,062,151	1,107,997	1,150,072	1,179,278	1,183,141
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	329,393	325,108	333,475	344,061	364,695	374,633	381,451
Engineering	68,534	61,875	59,786	57,604	57,675	58,165	58,422
Sciences	260,859	263,233	273,689	286,457	307,020	316,468	323,029
Natural sciences	120,352	104,928	100,908	101,039	106,739	111,656	117,843
Physical science[1]	19,520	16,724	15,608	15,799	16,469	16,927	17,812
Mathematical science	15,860	14,771	14,150	14,206	14,259	14,318	13,869
Computer science	37,349	28,828	25,629	23,373	22,880	22,273	22,185
Biological science	38,185	36,076	37,173	39,288	42,842	46,660	51,058
Agricultural science	9,438	8,529	8,348	8,373	10,289	11,478	12,919
Social sciences	140,507	158,305	172,781	185,418	200,281	204,812	205,186
Social science	97,806	109,862	119,288	127,216	136,902	138,391	136,273
Psychology	42,701	48,443	53,493	58,202	63,379	66,421	68,913
Non-S&E[2]	645,547	678,606	702,123	734,279	756,830	772,274	767,463
Grand total	974,940	1,003,714	1,035,598	1,078,340	1,121,525	1,146,907	1,148,914
	White, non-Hispanics						
Total science and engineering	272,090	266,862	270,225	278,190	292,614	297,171	297,616
Engineering	56,491	50,081	47,494	45,162	45,026	44,853	44,687
Sciences	215,599	216,781	222,731	233,028	247,588	252,318	252,929
Natural sciences	98,344	84,578	80,210	80,111	84,133	87,401	91,196
Physical science[1]	16,653	14,238	13,055	13,145	13,678	13,941	14,616
Mathematical science	13,265	12,287	11,765	11,649	11,723	11,669	11,089
Computer science	29,181	21,711	18,918	17,349	16,844	16,155	15,816
Biological science	30,549	28,404	28,814	30,264	32,506	35,080	37,942
Agricultural science	6,696	7,938	7,658	7,704	9,382	10,556	11,733
Social sciences	117,255	132,203	142,521	152,917	163,455	164,917	161,733
Social science	81,494	91,697	98,385	104,783	111,389	111,154	106,863
Psychology	35,761	40,506	44,136	48,134	52,066	53,763	54,870
Non-S&E[2]	547,387	573,464	586,461	614,173	628,839	634,432	620,508
Grand total	819,477	840,326	856,686	892,363	921,453	931,603	918,124

See explanatory information and SOURCES at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	16,934	19,138	19,437	20,552	22,635	24,504	26,420
Engineering	5,590	6,075	6,012	6,220	6,265	6,407	6,516
Sciences	11,344	13,063	13,425	14,332	16,370	18,097	19,904
Natural sciences	7,130	7,260	7,326	7,595	8,496	9,524	10,401
Physical science[1]	894	922	937	983	1,001	1,098	1,096
Mathematical science	1,034	1,019	874	915	857	915	926
Computer science	2,455	2,268	2,144	2,010	2,082	2,245	2,247
Biological science	2,565	2,907	3,245	3,559	4,402	5,103	5,959
Agricultural science	182	144	126	128	154	163	173
Social sciences	4,214	5,803	6,099	6,737	7,874	8,573	9,503
Social science	3,060	4,228	4,469	4,852	5,724	6,035	6,726
Psychology	1,154	1,575	1,630	1,885	2,150	2,538	2,777
Non-S&E[2]	14,987	18,435	18,590	21,173	23,981	26,083	28,255
Grand total	31,921	37,573	38,027	41,725	46,616	50,587	54,675
	Underrepresented minorities, total						
Total science and engineering	30,939	31,950	33,419	36,682	41,383	44,682	48,822
Engineering	5,079	4,805	4,729	4,953	5,277	5,714	6,020
Sciences	25,860	27,145	28,690	31,729	36,106	38,968	42,802
Natural sciences	11,607	10,830	10,530	10,960	11,722	12,510	13,782
Physical science[1]	1,480	1,322	1,245	1,355	1,425	1,528	1,737
Mathematical science	1,207	1,218	1,178	1,334	1,432	1,490	1,594
Computer science	4,307	3,742	3,416	3,292	3,342	3,390	3,611
Biological science	4,180	4,151	4,243	4,551	5,043	5,602	6,127
Agricultural science	433	397	448	428	480	500	713
Social sciences	14,253	16,315	18,160	20,769	24,384	26,458	29,020
Social science	9,920	11,212	12,394	14,100	16,647	17,918	19,400
Psychology	4,333	5,103	5,766	6,669	7,737	8,540	9,620
Non-S&E[2]	66,226	70,215	73,958	81,840	88,065	95,404	102,241
Grand total	97,165	102,165	107,377	118,522	129,448	140,086	151,063
	Black, non-Hispanics						
Total science and engineering	17,230	17,385	18,230	19,987	22,431	24,421	26,289
Engineering	2,315	2,067	2,072	2,229	2,362	2,577	2,659
Sciences	14,915	15,318	16,158	17,758	20,069	21,844	23,630
Natural sciences	6,524	6,005	5,782	5,834	6,401	6,972	7,559
Physical science[1]	823	697	650	753	816	836	921
Mathematical science	834	792	720	811	904	965	992
Computer science	2,820	2,457	2,247	1,997	2,090	2,213	2,398
Biological science	1,890	1,916	1,994	2,111	2,385	2,739	2,980
Agricultural science	157	143	171	162	206	219	268
Social sciences	8,391	9,313	10,376	11,924	13,668	14,872	16,071
Social science	5,940	6,570	7,226	8,236	9,489	10,254	10,835
Psychology	2,451	2,743	3,150	3,688	4,179	4,618	5,236
Non-S&E[2]	37,873	39,452	41,071	45,022	48,880	52,246	56,027
Grand total	55,103	56,837	59,301	65,009	71,311	76,667	82,316

See explanatory information and SOURCES at end of table.

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Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	12,419	13,327	13,918	15,351	17,391	18,442	20,529
Engineering	2,554	2,561	2,511	2,566	2,733	2,961	3,143
Sciences	9,865	10,766	11,407	12,785	14,658	15,481	17,386
Natural sciences	4,660	4,417	4,357	4,705	4,892	5,034	5,648
Physical science[1]	585	563	522	533	546	599	733
Mathematical science	321	373	413	480	482	470	543
Computer science	1,375	1,195	1,085	1,215	1,173	1,096	1,135
Biological science	2,146	2,090	2,119	2,264	2,477	2,652	2,901
Agricultural science	233	196	218	213	214	217	336
Social sciences	5,205	6,349	7,050	8,080	9,766	10,447	11,738
Social science	3,503	4,197	4,645	5,334	6,519	6,860	7,748
Psychology	1,702	2,152	2,405	2,746	3,247	3,587	3,990
Non-S&E[2]	25,777	28,034	29,946	33,676	35,616	39,403	42,154
Grand total	38,196	41,361	43,864	49,027	53,007	57,845	62,683
	American Indians or Alaskan Natives						
Total science and engineering	1,290	1,238	1,271	1,344	1,561	1,819	2,004
Engineering	210	177	146	158	182	176	218
Sciences	1,080	1,061	1,125	1,186	1,379	1,643	1,786
Natural sciences	423	408	391	421	429	504	575
Physical science[1]	72	62	73	69	63	93	83
Mathematical science	52	53	45	43	46	55	59
Computer science	112	90	84	80	79	81	78
Biological science	144	145	130	176	181	211	246
Agricultural science	43	58	59	53	60	64	109
Social sciences	657	653	734	765	950	1,139	1,211
Social science	477	445	523	530	639	804	817
Psychology	180	208	211	235	311	335	394
Non-S&E[2]	2,576	2,729	2,941	3,142	3,569	3,755	4,060
Grand total	3,866	3,967	4,212	4,486	5,130	5,574	6,064
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	9,430	7,158	10,394	8,637	8,063	8,276	8,593
Engineering	1,374	914	1,551	1,269	1,107	1,191	1,199
Sciences	8,056	6,244	8,843	7,368	6,956	7,085	7,394
Natural sciences	3,271	2,260	2,842	2,373	2,388	2,221	2,464
Physical science[1]	493	242	371	316	365	360	363
Mathematical science	354	247	333	308	247	244	260
Computer science	1,406	1,107	1,151	722	612	483	511
Biological science	891	614	871	914	891	875	1,030
Agricultural science	127	50	116	113	273	259	300
Social sciences	4,785	3,984	6,001	4,995	4,568	4,864	4,930
Social science	3,332	2,725	4,040	3,481	3,142	3,284	3,284
Psychology	1,453	1,259	1,961	1,514	1,426	1,580	1,646
Non-S&E[2]	16,947	16,492	23,114	17,093	15,945	16,355	16,459
Grand total	26,377	23,650	33,508	25,730	24,008	24,631	25,052

See explanatory information and SOURCES at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	13,677	12,323	12,318	12,724	12,238	13,802	13,929
Engineering	5,889	5,072	4,917	4,582	4,223	4,505	4,540
Sciences	7,788	7,251	7,401	8,142	8,015	9,297	9,389
Natural sciences	5,019	4,422	4,326	4,556	4,369	5,086	4,949
Physical science [1]	635	605	595	608	607	764	713
Mathematical science	655	543	524	578	592	552	562
Computer science	2,578	2,135	2,066	2,037	1,974	2,204	2,273
Biological science	862	873	867	1,063	993	1,217	1,155
Agricultural science	289	266	274	270	203	349	246
Social sciences	2,769	2,829	3,075	3,586	3,646	4,211	4,440
Social science	2,275	2,318	2,550	2,895	2,982	3,381	3,585
Psychology	494	511	525	691	664	830	855
Non-S&E [2]	14,915	14,134	14,235	16,933	16,309	18,569	20,298
Grand total	28,592	26,457	26,553	29,657	28,547	32,371	34,227

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	207,455	198,728	199,916	201,499	209,270	214,388	216,492
Engineering	63,020	56,759	54,730	52,522	52,270	52,696	52,569
Sciences	144,435	141,969	145,186	148,977	157,000	161,692	163,923
Natural sciences	75,630	65,875	62,518	62,091	64,678	67,855	70,956
Physical science [1]	14,422	12,157	11,109	11,199	11,466	11,877	12,253
Mathematical science	8,833	8,264	7,863	7,804	7,923	7,859	7,754
Computer science	26,038	21,418	19,321	17,896	17,670	17,565	17,466
Biological science	20,039	18,295	18,631	19,715	21,107	23,111	25,314
Agricultural science	6,298	5,741	5,594	5,477	6,512	7,443	8,169
Social sciences	68,805	76,094	82,668	86,886	92,322	93,837	92,967
Social science	55,406	61,803	67,269	70,731	75,185	75,808	74,218
Psychology	13,399	14,291	15,399	16,155	17,137	18,029	18,749
Non-S&E [2]	277,548	288,838	295,951	307,453	316,125	323,148	320,569
Grand total	485,003	487,566	495,867	508,952	525,395	537,536	537,061
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	197,189	189,685	190,980	192,516	200,929	204,994	207,030
Engineering	57,652	52,160	50,303	48,410	48,518	48,655	48,577
Sciences	139,537	137,525	140,677	144,106	152,411	156,339	158,453
Natural sciences	72,310	62,973	59,662	59,096	61,872	64,584	67,726
Physical science [1]	13,961	11,751	10,694	10,788	11,049	11,352	11,786
Mathematical science	8,412	7,917	7,539	7,430	7,565	7,514	7,390
Computer science	24,262	19,901	17,849	16,433	16,251	15,964	15,799
Biological science	19,606	17,869	18,200	19,171	20,628	22,542	24,739
Agricultural science	6,069	5,535	5,380	5,274	6,379	7,212	8,012
Social sciences	67,227	74,552	81,015	85,010	90,539	91,755	90,727
Social science	53,987	60,431	65,776	69,033	73,577	73,946	72,185
Psychology	13,240	14,121	15,239	15,977	16,962	17,809	18,542
Non-S&E [2]	268,676	280,764	287,979	298,209	307,360	313,490	310,288
Grand total	465,865	470,449	478,959	490,725	508,289	518,484	517,318
	White, non-Hispanics						
Total science and engineering	165,825	158,590	157,675	158,687	164,220	166,063	165,245
Engineering	48,015	42,779	40,533	38,692	38,513	38,244	37,830
Sciences	117,810	115,811	117,142	119,995	125,707	127,819	127,415
Natural sciences	60,575	52,132	48,848	48,304	50,126	52,048	54,115
Physical science [1]	12,139	10,173	9,179	9,203	9,430	9,614	9,958
Mathematical science	7,050	6,598	6,253	6,119	6,255	6,131	5,920
Computer science	19,793	15,799	13,974	12,916	12,571	12,329	12,022
Biological science	15,985	14,377	14,488	15,174	16,030	17,293	18,882
Agricultural science	5,608	5,185	4,954	4,892	5,840	6,681	7,333
Social sciences	57,235	63,679	68,294	71,691	75,581	75,771	73,300
Social science	46,066	51,766	55,662	58,414	61,574	61,269	58,409
Psychology	11,169	11,913	12,632	13,277	14,007	14,502	14,891
Non-S&E [2]	230,712	239,962	243,349	252,058	258,297	261,177	254,966
Grand total	396,537	398,552	401,024	410,745	422,517	427,240	420,211

See explanatory information and SOURCES at end of table.

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	10,445	11,578	11,528	11,942	13,198	14,132	14,967
Engineering	4,522	4,936	4,827	4,969	5,067	5,130	5,235
Sciences	5,923	6,642	6,701	6,973	8,131	9,002	9,732
Natural sciences	4,029	4,073	4,054	4,149	4,783	5,380	5,721
Physical science[1]	598	626	592	606	615	675	648
Mathematical science	532	527	491	482	486	502	523
Computer science	1,490	1,420	1,335	1,268	1,373	1,492	1,476
Biological science	1,314	1,442	1,573	1,736	2,230	2,633	2,992
Agricultural science	95	58	63	57	79	78	82
Social sciences	1,894	2,569	2,647	2,824	3,348	3,622	4,011
Social science	1,489	2,065	2,156	2,260	2,728	2,884	3,204
Psychology	405	504	491	564	620	738	807
Non-S&E[2]	6,459	7,625	7,569	8,831	9,992	10,687	11,453
Grand total	16,904	19,203	19,097	20,773	23,190	24,819	26,420
	Underrepresented minorities, total						
Total science and engineering	15,598	15,672	15,954	17,027	18,890	20,160	22,001
Engineering	3,886	3,638	3,574	3,654	3,952	4,261	4,458
Sciences	11,712	12,034	12,380	13,373	14,938	15,899	17,543
Natural sciences	5,699	5,411	5,043	5,226	5,450	5,766	6,389
Physical science[1]	855	771	655	755	745	792	931
Mathematical science	627	636	614	657	675	744	786
Computer science	2,111	2,013	1,797	1,758	1,864	1,802	1,939
Biological science	1,818	1,734	1,685	1,799	1,885	2,130	2,337
Agricultural science	288	257	292	257	281	298	396
Social sciences	6,013	6,623	7,337	8,147	9,488	10,133	11,154
Social science	4,776	5,286	5,788	6,442	7,590	8,013	8,813
Psychology	1,237	1,337	1,549	1,705	1,898	2,120	2,341
Non-S&E[2]	24,756	25,978	27,093	29,887	31,805	34,440	36,527
Grand total	40,354	41,650	43,047	46,914	50,695	54,600	58,528
	Black, non-Hispanics						
Total science and engineering	7,886	7,685	7,830	8,448	9,375	10,099	10,806
Engineering	1,606	1,397	1,416	1,484	1,614	1,764	1,784
Sciences	6,280	6,288	6,414	6,964	7,761	8,335	9,022
Natural sciences	2,939	2,732	2,476	2,538	2,709	2,872	3,146
Physical science[1]	433	365	292	391	381	370	464
Mathematical science	399	374	342	380	374	444	457
Computer science	1,284	1,205	1,074	971	1,092	1,049	1,161
Biological science	723	700	658	696	749	883	927
Agricultural science	100	88	110	100	113	126	137
Social sciences	3,341	3,556	3,938	4,426	5,052	5,463	5,876
Social science	2,680	2,911	3,144	3,547	4,070	4,364	4,644
Psychology	661	645	794	879	982	1,099	1,232
Non-S&E[2]	14,056	14,228	14,760	15,790	17,143	18,275	19,300
Grand total	21,942	21,913	22,590	24,238	26,518	28,374	30,106

See explanatory information and SOURCES at end of table.

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Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	6,974	7,318	7,434	7,888	8,730	9,160	10,190
Engineering	2,100	2,100	2,035	2,039	2,187	2,355	2,495
Sciences	4,874	5,218	5,399	5,849	6,543	6,805	7,695
Natural sciences	2,516	2,432	2,328	2,458	2,497	2,608	2,925
Physical science[1]	377	362	311	318	326	361	415
Mathematical science	196	224	249	259	279	273	300
Computer science	766	750	669	738	724	700	719
Biological science	1,018	965	955	1,019	1,043	1,144	1,298
Agricultural science	159	131	144	124	125	130	193
Social sciences	2,358	2,786	3,071	3,391	4,046	4,197	4,770
Social science	1,845	2,153	2,384	2,634	3,220	3,269	3,774
Psychology	513	633	687	757	826	928	996
Non-S&E[2]	9,664	10,684	11,249	12,893	13,296	14,665	15,670
Grand total	16,638	18,002	18,683	20,781	22,026	23,825	25,860
	American Indians or Alaskan Natives						
Total science and engineering	738	669	690	691	785	901	1,005
Engineering	180	141	123	131	151	142	179
Sciences	558	528	567	560	634	759	826
Natural sciences	244	247	239	230	244	286	318
Physical science[1]	45	44	52	46	38	61	52
Mathematical science	32	38	23	18	22	27	29
Computer science	61	58	54	49	48	53	59
Biological science	77	69	72	84	93	103	112
Agricultural science	29	38	38	33	43	42	66
Social sciences	314	281	328	330	390	473	508
Social science	251	222	260	261	300	380	395
Psychology	63	59	68	69	90	93	113
Non-S&E[2]	1,036	1,066	1,084	1,204	1,366	1,500	1,557
Grand total	1,774	1,735	1,774	1,895	2,151	2,401	2,562
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	5,321	3,845	5,823	4,860	4,621	4,639	4,817
Engineering	1,229	807	1,369	1,095	986	1,020	1,054
Sciences	4,092	3,038	4,454	3,765	3,635	3,619	3,763
Natural sciences	2,007	1,357	1,717	1,417	1,513	1,390	1,501
Physical science[1]	369	181	268	224	259	271	249
Mathematical science	203	156	181	172	149	137	161
Computer science	868	669	743	491	443	341	362
Biological science	489	316	454	462	483	486	528
Agricultural science	78	35	71	68	179	155	201
Social sciences	2,085	1,681	2,737	2,348	2,122	2,229	2,262
Social science	1,656	1,314	2,170	1,917	1,685	1,780	1,759
Psychology	429	367	567	431	437	449	503
Non-S&E[2]	6,749	7,199	9,968	7,433	7,266	7,186	7,342
Grand total	12,070	11,044	15,791	12,293	11,887	11,825	12,159

See explanatory information and SOURCES at end of table.

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Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	10,266	9,043	8,936	8,983	8,341	9,394	9,462
Engineering	5,368	4,599	4,427	4,112	3,752	4,041	3,992
Sciences	4,898	4,444	4,509	4,871	4,589	5,353	5,470
Natural sciences	3,320	2,902	2,856	2,995	2,806	3,271	3,230
Physical science [1]	461	406	415	411	417	525	467
Mathematical science	421	347	324	374	358	345	364
Computer science	1,776	1,517	1,472	1,463	1,419	1,601	1,667
Biological science	433	426	431	544	479	569	575
Agricultural science	229	206	214	203	133	231	157
Social sciences	1,578	1,542	1,653	1,876	1,783	2,082	2,240
Social science	1,419	1,372	1,493	1,698	1,608	1,862	2,033
Psychology	159	170	160	178	175	220	207
Non-S&E [2]	8,872	8,074	7,972	9,244	8,765	9,658	10,281
Grand total	19,138	17,117	16,908	18,227	17,106	19,052	19,743

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	135,615	138,703	145,877	155,286	167,663	174,047	178,888
Engineering	11,403	10,188	9,973	9,664	9,628	9,974	10,393
Sciences	124,212	128,515	135,904	145,622	158,035	164,073	168,495
Natural sciences	49,741	43,475	42,716	43,504	46,430	48,887	51,836
Physical science [1]	5,733	5,172	5,094	5,208	5,610	5,814	6,272
Mathematical science	7,682	7,050	6,811	6,980	6,928	7,011	6,677
Computer science	13,889	9,545	8,374	7,514	7,184	6,912	6,992
Biological science	19,008	18,654	19,409	20,636	22,728	24,766	26,899
Agricultural science	3,429	3,054	3,028	3,166	3,980	4,384	4,996
Social sciences	74,471	85,040	93,188	102,118	111,605	115,186	116,659
Social science	44,675	50,377	54,569	59,380	64,699	65,964	65,640
Psychology	29,796	34,663	38,619	42,738	46,906	49,222	51,019
Non S&E [2]	382,914	403,902	420,407	443,759	457,014	467,695	467,192
Grand total	518,529	542,605	566,284	599,045	624,677	641,742	646,080
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	132,204	135,423	142,495	151,545	163,766	169,639	174,421
Engineering	10,882	9,715	9,483	9,194	9,157	9,510	9,845
Sciences	121,322	125,708	133,012	142,351	154,609	160,129	164,576
Natural sciences	48,042	41,955	41,246	41,943	44,867	47,072	50,117
Physical science [1]	5,559	4,973	4,914	5,011	5,420	5,575	6,026
Mathematical science	7,448	6,854	6,611	6,776	6,694	6,804	6,479
Computer science	13,087	8,927	7,780	6,940	6,629	6,309	6,386
Biological science	18,579	18,207	18,973	20,117	22,214	24,118	26,319
Agricultural science	3,369	2,994	2,968	3,099	3,910	4,266	4,907
Social sciences	73,280	83,753	91,766	100,408	109,742	113,057	114,459
Social science	43,819	49,431	53,512	58,183	63,325	64,445	64,088
Psychology	29,461	34,322	38,254	42,225	46,417	48,612	50,371
Non S&E [2]	376,871	397,842	414,144	436,070	449,470	458,784	457,175
Grand total	509,075	533,265	556,639	587,615	613,236	628,423	631,596
	White, non Hispanics						
Total science and engineering	106,265	108,272	112,550	119,503	128,394	131,108	132,371
Engineering	8,476	7,302	6,961	6,470	6,513	6,609	6,857
Sciences	97,789	100,970	105,589	113,033	121,881	124,499	125,514
Natural sciences	37,769	32,446	31,362	31,807	34,007	35,353	37,081
Physical science [1]	4,514	4,065	3,876	3,942	4,248	4,327	4,658
Mathematical science	6,215	5,689	5,512	5,530	5,468	5,538	5,169
Computer science	9,388	5,912	4,944	4,433	4,273	3,826	3,794
Biological science	14,564	14,027	14,326	15,090	16,476	17,787	19,060
Agricultural science	3,088	2,753	2,704	2,812	3,542	3,875	4,400
Social sciences	60,020	68,524	74,227	81,226	87,874	89,146	88,433
Social science	35,428	39,931	42,723	46,369	49,815	49,885	48,454
Psychology	24,592	28,593	31,504	34,857	38,059	39,261	39,979
Non S&E [2]	316,675	333,502	343,112	362,115	370,542	373,255	365,542
Grand total	422,940	441,774	455,662	481,618	498,936	504,363	497,913

See explanatory information and SOURCES at end of table.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	6,489	7,560	7,909	8,610	9,437	10,372	11,453
Engineering	1,058	1,139	1,185	1,251	1,198	1,277	1,281
Sciences	5,421	6,421	6,724	7,359	8,239	9,095	10,172
Natural sciences	3,101	3,187	3,272	3,446	3,713	4,144	4,680
Physical science[1]	296	296	345	377	386	423	448
Mathematical science	502	492	383	433	371	413	403
Computer science	965	848	809	742	709	753	771
Biological science	1,251	1,465	1,672	1,823	2,172	2,470	2,967
Agricultural science	87	86	63	71	75	85	91
Social sciences	2,320	3,234	3,452	3,913	4,526	4,951	5,492
Social science	1,571	2,163	2,313	2,592	2,996	3,151	3,522
Psychology	749	1,071	1,139	1,321	1,530	1,800	1,970
Non S&E[2]	8,528	10,810	11,021	12,342	13,989	15,396	16,802
Grand total	15,017	18,370	18,930	20,952	23,426	25,768	28,255
	Underrepresented minorities, total						
Total science and engineering	15,341	16,278	17,465	19,655	22,493	24,522	26,821
Engineering	1,193	1,167	1,155	1,299	1,325	1,453	1,562
Sciences	14,148	15,111	16,310	18,356	21,168	23,069	25,259
Natural sciences	5,908	5,419	5,487	5,734	6,272	6,744	7,393
Physical science[1]	625	551	590	600	680	736	806
Mathematical science	580	582	564	677	757	746	808
Computer science	2,196	1,729	1,619	1,534	1,478	1,588	1,672
Biological science	2,362	2,417	2,558	2,752	3,158	3,472	3,790
Agricultural science	145	140	156	171	199	202	317
Social sciences	8,240	9,692	10,823	12,622	14,896	16,325	17,866
Social science	5,144	5,926	6,606	7,658	9,057	9,905	10,587
Psychology	3,096	3,766	4,217	4,964	5,839	6,420	7,279
Non S&E[2]	41,470	44,237	46,865	51,953	56,260	60,964	65,714
Grand total	56,811	60,515	64,330	71,608	78,753	85,486	92,535
	Black, non-Hispanics						
Total science and engineering	9,344	9,700	10,400	11,539	13,056	14,322	15,483
Engineering	709	670	656	745	748	813	875
Sciences	8,635	9,030	9,744	10,794	12,308	13,509	14,608
Natural sciences	3,585	3,273	3,306	3,296	3,692	4,100	4,413
Physical science[1]	390	332	358	362	435	466	457
Mathematical science	435	418	378	431	530	521	535
Computer science	1,536	1,252	1,173	1,026	998	1,164	1,237
Biological science	1,167	1,216	1,336	1,415	1,636	1,856	2,053
Agricultural science	57	55	61	62	93	93	131
Social sciences	5,050	5,757	6,438	7,498	8,616	9,409	10,195
Social science	3,260	3,659	4,082	4,689	5,419	5,890	6,191
Psychology	1,790	2,098	2,356	2,809	3,197	3,519	4,004
Non S&E[2]	23,817	25,224	26,311	29,232	31,737	33,971	36,727
Grand total	33,161	34,924	36,711	40,771	44,793	48,293	52,210

See explanatory information and SOURCES at end of table

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	5,445	6,009	6,484	7,463	8,661	9,282	10,339
Engineering	454	461	476	527	546	606	648
Sciences	4,991	5,548	6,008	6,936	8,115	8,676	9,691
Natural sciences	2,144	1,985	2,029	2,247	2,395	2,426	2,723
Physical science[1]	208	201	211	215	220	238	318
Mathematical science	125	149	164	221	203	197	243
Computer science	609	445	416	477	449	396	416
Biological science	1,126	1,125	1,164	1,245	1,434	1,508	1,603
Agricultural science	74	65	74	89	89	87	143
Social sciences	2,847	3,563	3,979	4,689	5,720	6,250	6,968
Social science	1,658	2,044	2,261	2,700	3,299	3,591	3,974
Psychology	1,189	1,519	1,718	1,989	2,421	2,659	2,994
Non S&E[2]	16,113	17,350	18,697	20,783	22,320	24,738	26,484
Grand total	21,558	23,359	25,181	28,246	30,981	34,020	36,823
	American Indians or Alaskan Natives						
Total science and engineering	552	569	581	653	776	918	999
Engineering	30	36	23	27	31	34	39
Sciences	522	533	558	626	745	884	960
Natural sciences	179	161	152	191	185	218	257
Physical science[1]	27	18	21	23	25	32	31
Mathematical science	20	15	22	25	24	28	30
Computer science	51	32	30	31	31	28	19
Biological science	67	76	58	92	88	108	134
Agricultural science	14	20	21	20	17	22	43
Social sciences	343	372	406	435	560	666	703
Social science	226	223	263	269	339	424	422
Psychology	117	149	143	166	221	242	281
Non S&E[2]	1,540	1,663	1,857	1,938	2,203	2,255	2,503
Grand total	2,092	2,232	2,438	2,591	2,979	3,173	3,502
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	4,109	3,313	4,571	3,777	3,442	3,637	3,776
Engineering	145	107	182	174	121	171	145
Sciences	3,964	3,206	4,389	3,603	3,321	3,466	3,631
Natural sciences	1,264	903	1,125	956	875	831	963
Physical science[1]	124	61	103	92	106	89	114
Mathematical science	151	91	152	136	98	107	99
Computer science	536	436	408	231	169	142	149
Biological science	402	298	417	452	408	389	502
Agricultural science	49	15	45	45	94	104	99
Social sciences	2,700	2,303	3,264	2,647	2,446	2,635	2,668
Social science	1,676	1,411	1,870	1,564	1,457	1,504	1,525
Psychology	1,024	892	1,394	1,083	989	1,131	1,143
Non S&E[2]	10,198	9,293	13,146	9,660	8,679	9,169	9,117
Grand total	14,307	12,606	17,717	13,437	12,121	12,806	12,893

See explanatory information and SOURCES at end of table.

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Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	3,411	3,280	3,382	3,741	3,897	4,408	4,467
Engineering	521	473	490	470	471	464	548
Sciences	2,890	2,807	2,892	3,271	3,426	3,944	3,919
Natural sciences	1,699	1,520	1,470	1,561	1,563	1,815	1,719
Physical science [1]	174	199	180	197	190	239	246
Mathematical science	234	196	200	204	234	207	198
Computer science	802	618	594	574	555	603	606
Biological science	429	447	436	519	514	648	580
Agricultural science	60	60	60	67	70	118	89
Social sciences	1,191	1,287	1,422	1,710	1,863	2,129	2,200
Social science	856	946	1,057	1,197	1,374	1,519	1,552
Psychology	335	341	365	513	489	610	648
Non-S&E [2]	6,043	6,060	6,263	7,689	7,544	8,911	10,017
Grand total	9,454	9,340	9,645	11,430	11,441	13,319	14,484

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

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Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	66,774	70,333	72,228	72,828	76,184	81,415	86,080
Engineering	22,057	23,735	23,985	24,007	25,010	27,658	28,707
Sciences	44,717	46,598	48,243	48,821	51,174	53,757	57,373
Natural sciences	25,269	26,089	26,293	25,669	26,775	27,713	28,869
Physical science[1]	5,638	5,703	5,411	5,282	5,352	5,365	5,688
Mathematical science	3,327	3,430	3,684	3,632	4,019	4,084	4,108
Computer science	8,481	9,399	9,643	9,324	9,530	10,167	10,421
Biological science	4,999	4,953	4,893	4,806	4,816	4,798	5,217
Agricultural science	2,824	2,604	2,662	2,625	3,058	3,299	3,435
Social sciences	19,448	20,509	21,950	23,152	24,399	26,044	28,504
Social science	11,283	11,857	12,642	13,350	14,119	15,024	16,230
Psychology	8,165	8,652	9,308	9,802	10,280	11,020	12,274
Non-S&E[2]	223,758	240,717	252,719	265,670	278,023	289,558	302,928
Grand total	290,532	311,050	324,947	338,498	354,207	370,973	389,008
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	53,729	55,190	55,890	55,779	58,177	61,265	65,201
Engineering	16,276	16,988	16,746	16,487	17,111	18,539	19,350
Sciences	37,453	38,202	39,144	39,292	41,066	42,726	45,851
Natural sciences	20,234	20,167	19,963	18,935	19,459	19,651	20,451
Physical science[1]	4,582	4,465	4,047	3,778	3,814	3,763	3,918
Mathematical science	2,491	2,454	2,649	2,573	2,907	2,946	3,013
Computer science	6,414	6,957	7,080	6,505	6,361	6,388	6,509
Biological science	4,490	4,317	4,164	4,057	4,021	3,949	4,284
Agricultural science	2,257	1,974	2,023	2,022	2,356	2,605	2,727
Social sciences	17,219	18,035	19,181	20,357	21,607	23,075	25,400
Social science	9,274	9,642	10,258	10,872	11,629	12,387	13,487
Psychology	7,945	8,393	8,923	9,485	9,978	10,688	11,913
Non-S&E[2]	208,539	223,737	234,455	245,108	256,378	265,599	277,301
Grand total	262,268	278,927	290,345	300,887	314,555	326,864	342,502
	White, non-Hispanics						
Total science and engineering	43,360	43,945	44,450	44,513	45,649	47,975	50,711
Engineering	12,837	12,832	12,859	12,635	12,752	13,920	14,469
Sciences	30,523	31,113	31,591	31,878	32,897	34,055	36,242
Natural sciences	16,352	16,080	15,742	15,005	15,136	15,322	15,524
Physical science[1]	3,834	3,766	3,401	3,129	3,067	3,078	3,145
Mathematical science	2,012	2,032	2,169	2,068	2,336	2,354	2,379
Computer science	4,717	4,786	4,851	4,637	4,407	4,464	4,286
Biological science	3,745	3,679	3,501	3,353	3,251	3,144	3,453
Agricultural science	2,044	1,817	1,820	1,818	2,075	2,282	2,261
Social sciences	14,171	15,033	15,849	16,873	17,761	18,733	20,718
Social science	7,473	7,958	8,360	8,900	9,523	9,923	10,758
Psychology	6,698	7,075	7,489	7,973	8,238	8,810	9,960
Non-S&E[2]	173,447	186,377	192,424	203,011	211,413	217,693	223,202
Grand total	216,807	230,322	236,874	247,524	257,062	265,668	273,913

See explanatory information and SOURCES at end of table.

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	3,455	4,100	4,055	4,310	4,763	4,846	5,422
Engineering	1,650	1,992	1,863	2,008	2,223	2,260	2,443
Sciences	1,805	2,108	2,192	2,302	2,540	2,586	2,979
Natural sciences	1,426	1,617	1,629	1,735	1,916	1,918	2,159
Physical science[1]	227	278	234	251	295	249	284
Mathematical science	183	178	184	189	201	197	233
Computer science	779	894	941	1,014	1,105	1,106	1,228
Biological science	190	223	225	231	264	305	332
Agricultural science	47	44	45	50	51	61	82
Social sciences	379	491	563	567	624	668	820
Social science	266	360	404	397	441	477	550
Psychology	113	131	159	170	183	191	270
Non-S&E[2]	4,674	6,074	5,939	6,760	7,530	8,323	9,137
Grand total	8,129	10,174	9,994	11,070	12,293	13,169	14,559
	Underrepresented minorities, total						
Total science and engineering	3,515	3,446	3,615	4,026	4,360	4,899	5,636
Engineering	953	856	868	906	996	1,195	1,368
Sciences	2,562	2,590	2,747	3,120	3,364	3,704	4,268
Natural sciences	1,122	1,025	1,002	1,195	1,258	1,358	1,569
Physical science[1]	210	188	194	182	209	231	257
Mathematical science	136	99	127	194	147	184	190
Computer science	352	381	357	425	480	484	552
Biological science	304	267	244	286	307	312	297
Agricultural science	120	90	80	108	115	147	273
Social sciences	1,440	1,565	1,745	1,925	2,106	2,346	2,699
Social science	758	777	868	1,031	1,118	1,282	1,443
Psychology	682	788	877	894	988	1,064	1,256
Non-S&E[2]	18,488	19,224	20,403	22,640	24,544	26,713	30,095
Grand total	22,003	22,670	24,018	26,666	28,904	31,612	35,731
	Black, non-Hispanics						
Total science and engineering	1,784	1,652	1,847	2,090	2,356	2,554	2,849
Engineering	403	355	387	398	466	564	589
Sciences	1,381	1,297	1,460	1,692	1,890	1,990	2,260
Natural sciences	581	495	527	644	699	716	821
Physical science[1]	79	78	87	73	98	105	127
Mathematical science	73	59	70	100	77	98	109
Computer science	207	198	232	283	316	308	365
Biological science	167	124	110	137	149	135	142
Agricultural science	55	36	28	51	59	70	78
Social sciences	800	802	933	1,048	1,191	1,274	1,439
Social science	424	407	462	594	660	730	803
Psychology	376	395	471	454	531	544	636
Non-S&E[2]	11,389	11,803	12,626	13,767	15,064	16,343	18,087
Grand total	13,173	13,455	14,473	15,857	17,420	18,897	20,936

See explanatory information and SOURCES at end of table

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	1,584	1,585	1,587	1,736	1,806	2,092	2,514
Engineering	512	468	446	468	488	581	719
Sciences	1,072	1,117	1,141	1,268	1,318	1,511	1,795
Natural sciences	493	444	431	494	503	574	680
Physical science [1]	122	92	98	96	93	114	114
Mathematical science	60	34	51	85	66	78	75
Computer science	123	144	118	128	149	162	169
Biological science	126	126	120	136	146	151	138
Agricultural science	62	48	44	49	49	69	184
Social sciences	579	673	710	774	815	937	1,115
Social science	308	313	341	383	396	474	557
Psychology	271	360	369	391	419	463	558
Non-S&E [2]	6,197	6,548	6,908	7,948	8,450	9,279	10,663
Grand total	7,781	8,133	8,495	9,684	10,256	11,371	13,177
	American Indians or Alaskan Natives						
Total science and engineering	147	209	181	200	198	253	273
Engineering	38	13	35	40	42	50	60
Sciences	109	176	146	160	156	203	213
Natural sciences	48	86	44	57	56	68	68
Physical science [1]	9	18	9	13	18	12	16
Mathematical science	3	6	6	9	4	8	6
Computer science	22	39	7	14	15	14	18
Biological science	11	17	14	13	12	26	17
Agricultural science	3	6	8	8	7	8	11
Social sciences	61	90	102	103	100	135	145
Social science	26	57	65	54	62	78	83
Psychology	35	33	37	49	38	57	62
Non-S&E [2]	902	873	869	925	1,030	1,091	1,345
Grand total	1,049	1,082	1,050	1,125	1,228	1,344	1,618
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	3,399	3,699	3,770	2,930	3,405	3,545	3,432
Engineering	836	1,308	1,156	938	1,140	1,164	1,070
Sciences	2,563	2,391	2,614	1,992	2,265	2,381	2,362
Natural sciences	1,334	1,445	1,590	1,000	1,149	1,053	1,199
Physical science [1]	311	233	218	216	243	205	232
Mathematical science	160	145	169	122	223	211	211
Computer science	566	896	931	429	369	334	443
Biological science	251	148	194	187	199	188	202
Agricultural science	46	23	78	46	115	115	111
Social sciences	1,229	946	1,024	992	1,116	1,328	1,163
Social science	777	547	626	544	547	705	736
Psychology	452	399	398	448	569	623	427
Non-S&E [2]	11,930	12,062	15,689	12,697	12,891	12,870	14,867
Grand total	15,329	15,761	19,459	15,627	16,296	16,415	18,299

See explanatory information and SOURCES at end of table.

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	13,045	15,143	16,338	17,049	18,007	20,150	20,879
Engineering	5,781	6,747	7,239	7,520	7,899	9,119	9,357
Sciences	7,264	8,396	9,099	9,529	10,108	11,031	11,522
Natural sciences	5,035	5,922	6,330	6,734	7,316	8,062	8,418
Physical science [1]	1,056	1,238	1,364	1,504	1,538	1,602	1,770
Mathematical science	836	976	1,035	1,059	1,112	1,138	1,095
Computer science	2,067	2,442	2,563	2,819	3,169	3,779	3,912
Biological science	509	636	729	749	795	849	933
Agricultural science	567	630	639	603	702	694	708
Social sciences	2,229	2,474	2,769	2,795	2,792	2,969	3,104
Social science	2,009	2,215	2,384	2,478	2,490	2,637	2,743
Psychology	220	259	385	317	302	332	361
Non-S&E [2]	15,219	16,980	18,264	20,562	21,645	23,959	25,627
Grand total	28,264	32,123	34,602	37,611	39,652	44,109	46,506

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	45,611	47,724	48,424	47,748	49,768	53,102	55,461
Engineering	19,290	20,654	20,717	20,650	21,345	23,565	24,286
Sciences	26,321	27,070	27,707	27,098	28,423	29,537	31,175
Natural sciences	16,714	17,250	17,258	16,530	17,480	18,076	18,813
Physical science [1]	4,225	4,180	3,981	3,825	3,895	3,803	4,030
Mathematical science	2,026	2,060	2,208	2,146	2,457	2,468	2,541
Computer science	5,985	6,773	6,968	6,563	6,884	7,411	7,727
Biological science	2,555	2,491	2,393	2,315	2,316	2,365	2,475
Agricultural science	1,923	1,746	1,708	1,681	1,928	2,029	2,040
Social sciences	9,607	9,820	10,449	10,568	10,943	11,461	12,362
Social science	6,769	7,006	7,424	7,574	7,939	8,419	8,945
Psychology	2,838	2,814	3,025	2,994	3,004	3,042	3,417
Non-S&E [2]	96,044	101,675	105,601	109,147	112,531	116,651	121,301
Grand total	141,655	149,399	154,025	156,895	162,299	169,753	176,762
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	35,093	35,681	35,722	34,667	36,063	37,737	39,700
Engineering	13,946	14,446	14,174	13,977	14,350	15,542	16,140
Sciences	21,147	21,235	21,548	20,690	21,713	22,195	23,560
Natural sciences	13,036	12,985	12,819	11,839	12,393	12,504	12,985
Physical science [1]	3,391	3,226	2,953	2,755	2,784	2,685	2,794
Mathematical science	1,482	1,428	1,559	1,463	1,745	1,717	1,803
Computer science	4,410	4,925	5,035	4,419	4,504	4,600	4,779
Biological science	2,287	2,134	2,014	1,945	1,931	1,959	2,013
Agricultural science	1,466	1,272	1,258	1,257	1,429	1,543	1,596
Social sciences	8,111	8,250	8,729	8,851	9,320	9,691	10,575
Social science	5,362	5,535	5,840	5,961	6,411	6,760	7,288
Psychology	2,749	2,715	2,889	2,890	2,909	2,931	3,287
Non-S&E [2]	86,243	91,096	94,604	97,078	99,999	103,195	106,921
Grand total	121,336	126,777	130,326	131,745	136,062	140,932	146,621
	White, non-Hispanics						
Total science and engineering	28,120	28,115	28,250	27,634	28,113	29,493	30,846
Engineering	10,963	10,874	10,922	10,742	10,775	11,777	12,232
Sciences	17,157	17,241	17,328	16,892	17,338	17,716	18,614
Natural sciences	10,523	10,357	10,116	9,491	9,675	9,837	9,964
Physical science [1]	2,855	2,750	2,518	2,299	2,234	2,229	2,252
Mathematical science	1,187	1,173	1,275	1,169	1,389	1,332	1,420
Computer science	3,229	3,430	3,474	3,260	3,236	3,326	3,309
Biological science	1,932	1,830	1,711	1,629	1,566	1,593	1,643
Agricultural science	1,320	1,174	1,138	1,134	1,250	1,357	1,340
Social sciences	6,634	6,884	7,212	7,401	7,663	7,879	8,650
Social science	4,309	4,592	4,781	4,981	5,276	5,453	5,880
Psychology	2,325	2,292	2,431	2,420	2,387	2,426	2,770
Non-S&E [2]	71,939	75,927	77,825	80,283	82,684	84,224	85,912
Grand total	100,059	104,042	106,075	107,917	110,797	113,717	116,758

See explanatory information and SOURCES at end of table.

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Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	2,559	2,939	2,799	2,959	3,276	3,237	3,561
Engineering	1,455	1,699	1,557	1,685	1,816	1,819	1,932
Sciences	1,104	1,240	1,242	1,274	1,460	1,418	1,629
Natural sciences	908	990	976	1,031	1,169	1,149	1,279
Physical science[1]	164	179	140	165	206	150	182
Mathematical science	110	117	106	108	103	121	126
Computer science	522	565	609	627	705	710	785
Biological science	85	105	97	104	125	136	151
Agricultural science	27	24	24	27	30	32	35
Social sciences	196	250	266	243	291	269	350
Social science	163	206	224	196	229	219	276
Psychology	33	44	42	47	62	50	74
Non-S&E[2]	2,419	2,978	2,871	3,261	3,547	3,888	4,230
Grand total	4,978	5,917	5,670	6,220	6,823	7,125	7,791
	Underrepresented minorities, total						
Total science and engineering	2,130	1,990	2,005	2,129	2,340	2,637	2,964
Engineering	791	685	687	711	775	924	1,052
Sciences	1,339	1,305	1,318	1,418	1,565	1,713	1,912
Natural sciences	688	639	610	664	728	764	899
Physical science[1]	140	133	130	124	144	142	167
Mathematical science	87	58	74	112	92	102	111
Computer science	236	255	238	244	283	308	337
Biological science	137	129	120	116	137	132	125
Agricultural science	88	64	48	68	72	80	159
Social sciences	651	666	708	754	837	949	1,013
Social science	427	416	429	482	556	672	692
Psychology	224	250	279	272	281	277	321
Non-S&E[2]	6,768	7,049	7,316	8,078	8,336	9,266	10,180
Grand total	8,898	9,039	9,321	10,207	10,676	11,903	13,144
	Black, non-Hispanics						
Total science and engineering	990	878	950	1,028	1,166	1,253	1,376
Engineering	315	262	287	299	332	407	422
Sciences	675	616	663	729	834	846	954
Natural sciences	338	290	307	338	382	386	435
Physical science[1]	45	56	61	43	66	58	74
Mathematical science	45	32	37	53	44	48	62
Computer science	126	119	140	150	175	193	205
Biological science	80	59	51	58	61	47	48
Agricultural science	42	24	18	34	36	40	46
Social sciences	337	326	356	391	452	460	519
Social science	221	206	223	262	315	345	358
Psychology	116	120	133	129	137	115	161
Non-S&E[2]	3,895	4,086	4,219	4,591	4,628	5,219	5,631
Grand total	4,885	4,964	5,169	5,619	5,794	6,472	7,007

See explanatory information and SOURCES at end of table

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	1,045	970	959	992	1,066	1,255	1,427
Engineering	444	394	373	378	408	480	582
Sciences	601	576	586	614	658	775	845
Natural sciences	318	282	275	294	309	341	414
Physical science[1]	88	65	63	73	64	76	80
Mathematical science	41	21	33	52	47	50	44
Computer science	91	100	93	84	98	104	120
Biological science	53	62	61	54	69	76	65
Agricultural science	45	34	25	31	31	35	105
Social sciences	283	294	311	320	349	434	431
Social science	187	176	178	196	218	282	290
Psychology	96	118	133	124	131	152	141
Non-S&E[2]	2,476	2,627	2,754	3,132	3,315	3,620	4,056
Grand total	3,521	3,597	3,713	4,124	4,381	4,875	5,483
	American Indians or Alaskan Natives						
Total science and engineering	95	142	96	109	108	129	161
Engineering	32	29	27	34	35	37	48
Sciences	63	113	69	75	73	92	113
Natural sciences	32	67	28	32	37	37	50
Physical science[1]	7	12	6	8	14	8	13
Mathematical science	1	5	4	7	1	4	5
Computer science	19	36	5	10	10	11	12
Biological science	4	8	8	4	7	9	12
Agricultural science	1	6	5	3	5	5	8
Social sciences	31	46	41	43	36	55	63
Social science	19	34	28	24	23	45	44
Psychology	12	12	13	19	13	10	19
Non-S&E[2]	397	336	343	355	393	427	493
Grand total	492	478	439	464	501	556	654
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	2,284	2,637	2,668	1,945	2,334	2,370	2,329
Engineering	737	1,186	1,008	839	984	1,022	924
Sciences	1,547	1,449	1,660	1,106	1,350	1,348	1,405
Natural sciences	917	999	1,117	653	821	754	843
Physical science[1]	232	164	165	167	200	164	193
Mathematical science	98	80	104	74	161	162	146
Computer science	423	675	714	288	280	256	348
Biological science	133	70	86	96	103	98	94
Agricultural science	31	10	48	28	77	74	62
Social sciences	630	450	543	453	529	594	562
Social science	463	321	406	302	350	416	440
Psychology	167	129	137	151	179	178	122
Non-S&E[2]	5,117	5,142	6,592	5,456	5,432	5,817	6,599
Grand total	7,401	7,779	9,260	7,401	7,766	8,187	8,928

See explanatory information and SOURCES at end of table.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	10,518	12,043	12,702	13,081	13,705	15,365	15,761
Engineering	5,344	6,208	6,543	6,673	6,995	8,023	8,146
Sciences	5,174	5,835	6,159	6,408	6,710	7,342	7,615
Natural sciences	3,678	4,265	4,439	4,691	5,087	5,572	5,828
Physical science [1]	834	954	1,028	1,070	1,111	1,118	1,236
Mathematical science	544	632	649	683	712	751	738
Computer science	1,575	1,848	1,933	2,144	2,380	2,811	2,948
Biological science	268	357	379	370	385	406	462
Agricultural science	457	474	450	424	499	486	444
Social sciences	1,496	1,570	1,720	1,717	1,623	1,770	1,787
Social science	1,407	1,471	1,584	1,613	1,528	1,659	1,657
Psychology	89	99	136	104	95	111	130
Non-S&E [2]	9,801	10,579	10,997	12,069	12,532	13,456	14,380
Grand total	20,319	22,622	23,699	25,150	26,237	28,821	30,141

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

4 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics: and IPEDS Completions Surveys, 1987-94

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Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	21,163	22,609	23,804	25,080	26,416	28,313	30,619
Engineering	2,767	3,081	3,268	3,357	3,665	4,093	4,421
Sciences	18,396	19,528	20,536	21,723	22,751	24,220	26,198
Natural sciences	8,555	8,839	9,035	9,139	9,295	9,637	10,056
Physical science [1]	1,413	1,523	1,430	1,457	1,457	1,562	1,658
Mathematical science	1,301	1,370	1,476	1,486	1,562	1,616	1,567
Computer science	2,496	2,626	2,675	2,761	2,646	2,756	2,694
Biological science	2,444	2,462	2,500	2,491	2,500	2,433	2,742
Agricultural science	901	858	954	944	1,130	1,270	1,395
Social sciences	9,841	10,689	11,501	12,584	13,456	14,583	16,142
Social science	4,514	4,851	5,218	5,776	6,180	6,605	7,285
Psychology	5,327	5,838	6,283	6,808	7,276	7,978	8,857
Non-S&E [2]	127,714	139,042	147,118	156,523	165,492	172,907	181,627
Grand total	148,877	161,651	170,922	181,603	191,908	201,220	212,246
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	18,636	19,509	20,168	21,112	22,114	23,528	25,501
Engineering	2,330	2,542	2,572	2,510	2,761	2,997	3,210
Sciences	16,306	16,967	17,596	18,602	19,353	20,531	22,291
Natural sciences	7,198	7,182	7,144	7,096	7,066	7,147	7,466
Physical science [1]	1,191	1,239	1,094	1,023	1,030	1,078	1,124
Mathematical science	1,009	1,026	1,090	1,110	1,162	1,229	1,210
Computer science	2,004	2,032	2,045	2,086	1,857	1,788	1,730
Biological science	2,203	2,183	2,150	2,112	2,090	1,990	2,271
Agricultural science	791	702	765	765	927	1,062	1,131
Social sciences	9,108	9,785	10,452	11,506	12,287	13,384	14,825
Social science	3,912	4,107	4,418	4,911	5,218	5,627	6,199
Psychology	5,196	5,678	6,034	6,595	7,069	7,757	8,626
Non-S&E [2]	122,296	132,641	139,851	148,030	156,379	162,404	170,380
Grand total	140,932	152,150	160,019	169,142	178,493	185,932	195,881
	White, non-Hispanics						
Total science and engineering	15,240	15,830	16,200	16,879	17,536	18,482	19,865
Engineering	1,874	1,958	1,937	1,893	1,977	2,143	2,237
Sciences	13,366	13,872	14,263	14,986	15,559	16,339	17,628
Natural sciences	5,829	5,723	5,626	5,514	5,461	5,485	5,560
Physical science [1]	979	1,016	883	830	833	849	893
Mathematical science	825	859	894	899	947	1,022	959
Computer science	1,488	1,356	1,377	1,377	1,171	1,138	977
Biological science	1,813	1,849	1,790	1,724	1,685	1,551	1,810
Agricultural science	724	643	682	684	825	925	921
Social sciences	7,537	8,149	8,637	9,472	10,098	10,854	12,068
Social science	3,164	3,365	3,579	3,919	4,247	4,470	4,878
Psychology	4,373	4,783	5,058	5,553	5,851	6,384	7,190
Non-S&E [2]	101,508	110,450	114,599	122,728	128,729	133,469	137,290
Grand total	116,748	126,280	130,799	139,607	146,265	151,951	157,155

See explanatory information and SOURCES at end of table.

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	896	1,161	1,256	1,351	1,487	1,609	1,861
Engineering	195	293	306	323	407	441	511
Sciences	701	868	950	1,028	1,080	1,168	1,350
Natural sciences	518	627	653	704	747	769	880
Physical science[1]	63	99	94	86	89	99	102
Mathematical science	73	61	78	81	98	76	107
Computer science	257	329	332	387	400	396	443
Biological science	105	118	128	127	139	169	181
Agricultural science	20	20	21	23	21	29	47
Social sciences	183	241	297	324	333	399	470
Social science	103	154	180	201	212	258	274
Psychology	80	87	117	123	121	141	196
Non-S&E[2]	2,255	3,096	3,068	3,499	3,983	4,435	4,907
Grand total	3,151	4,257	4,324	4,850	5,470	6,044	6,768
	Underrepresented minorities, total						
Total science and engineering	1,385	1,456	1,610	1,897	2,020	2,262	2,672
Engineering	162	171	181	195	221	271	316
Sciences	1,223	1,285	1,429	1,702	1,799	1,991	2,356
Natural sciences	434	386	392	531	530	594	670
Physical science[1]	70	55	64	58	65	89	90
Mathematical science	49	41	53	82	55	82	79
Computer science	116	126	119	181	197	176	215
Biological science	167	138	124	170	170	180	172
Agricultural science	32	26	32	40	43	67	114
Social sciences	789	899	1,037	1,171	1,269	1,397	1,686
Social science	331	361	439	549	562	610	751
Psychology	458	538	598	622	707	787	935
Non-S&E[2]	11,720	12,175	13,087	14,562	16,208	17,447	19,915
Grand total	13,105	13,631	14,697	16,459	18,228	19,709	22,587
	Black, non-Hispanics						
Total science and engineering	794	774	897	1,062	1,190	1,301	1,473
Engineering	88	93	100	99	134	157	167
Sciences	706	681	797	963	1,056	1,144	1,306
Natural sciences	243	205	220	306	317	330	386
Physical science[1]	34	22	26	30	32	47	53
Mathematical science	28	27	33	47	33	50	47
Computer science	81	79	92	133	141	115	160
Biological science	87	65	59	79	88	88	94
Agricultural science	13	12	10	17	23	30	32
Social sciences	463	476	577	657	739	814	920
Social science	203	201	239	332	345	385	445
Psychology	260	275	338	325	394	429	475
Non-S&E[2]	7,494	7,717	8,407	9,176	10,436	11,124	12,456
Grand total	8,288	8,491	9,304	10,238	11,626	12,425	13,929

See explanatory information and SOURCES at end of table.

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	539	615	628	744	740	837	1,087
Engineering	68	74	73	90	80	101	137
Sciences	471	541	555	654	660	736	950
Natural sciences	175	162	156	200	194	233	266
Physical science [1]	34	27	35	23	29	38	34
Mathematical science	19	13	18	33	19	28	31
Computer science	32	44	25	44	51	58	49
Biological science	73	64	59	82	77	75	73
Agricultural science	17	14	19	18	18	34	79
Social sciences	296	379	399	454	466	503	684
Social science	121	137	163	187	178	192	267
Psychology	175	242	236	267	288	311	417
Non S&E [2]	3,721	3,921	4,154	4,816	5,135	5,659	6,607
Grand total	4,260	4,536	4,782	5,560	5,875	6,496	7,694
	American Indians or Alaskan Natives						
Total science and engineering	52	67	85	91	90	124	112
Engineering	6	4	8	6	7	13	12
Sciences	46	63	77	85	83	111	100
Natural sciences	16	19	16	25	19	31	18
Physical science [1]	2	6	3	5	4	4	3
Mathematical science	2	1	2	2	3	4	1
Computer science	3	3	2	4	5	3	6
Biological science	7	9	6	9	5	17	5
Agricultural science	2	0	3	5	2	3	3
Social sciences	30	44	61	60	64	80	82
Social science	7	23	37	30	39	33	39
Psychology	23	21	24	30	25	47	43
Non S&E [2]	505	537	526	570	637	664	852
Grand total	557	604	611	661	727	788	964
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	1,115	1,062	1,102	985	1,071	1,175	1,103
Engineering	99	120	148	99	156	142	146
Sciences	1,016	942	954	886	915	1,033	957
Natural sciences	417	446	473	347	328	299	356
Physical science [1]	79	69	53	49	43	41	39
Mathematical science	62	65	65	48	62	49	65
Computer science	143	221	217	141	89	78	95
Biological science	118	78	108	91	96	90	108
Agricultural science	15	13	30	18	38	41	49
Social sciences	599	496	481	539	587	734	601
Social science	314	226	220	242	197	289	296
Psychology	285	270	261	297	390	445	305
Non S&E [2]	6,813	6,920	9,097	7,241	7,459	7,053	8,268
Grand total	7,928	7,982	10,199	8,226	8,530	8,228	9,371

See explanatory information and SOURCES at end of table.

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Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	2,527	3,100	3,636	3,968	4,302	4,785	5,118
Engineering	437	539	696	847	904	1,096	1,211
Sciences	2,090	2,561	2,940	3,121	3,398	3,689	3,907
Natural sciences	1,357	1,657	1,891	2,043	2,229	2,490	2,590
Physical science [1]	222	284	336	434	427	484	534
Mathematical science	292	344	386	376	400	387	357
Computer science	492	594	630	675	789	968	964
Biological science	241	279	350	379	410	443	471
Agricultural science	110	156	189	179	203	208	264
Social sciences	733	904	1,049	1,078	1,169	1,199	1,317
Social science	602	744	800	865	962	978	1,086
Psychology	131	160	249	213	207	221	231
Non-S&E [2]	5,418	6,401	7,267	8,493	9,113	10,503	11,247
Grand total	7,945	9,501	10,903	12,461	13,415	15,288	16,365

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	19,894	21,731	22,867	24,019	24,673	25,441	26,202
Engineering	3,712	4,543	4,894	5,215	5,438	5,698	5,822
Sciences	16,182	17,188	17,973	18,804	19,235	19,743	20,380
Natural sciences	9,845	10,656	11,140	11,998	12,362	12,555	13,100
Physical science[1]	3,840	3,984	4,264	4,440	4,574	4,470	4,801
Mathematical science	740	859	890	1,039	1,058	1,146	1,118
Computer science	450	612	705	800	869	880	903
Biological science	3,839	4,115	4,327	4,646	4,798	5,091	5,200
Agricultural science	976	1,086	1,174	1,073	1,063	968	1,078
Social sciences	6,337	6,532	6,613	6,806	6,873	7,188	7,280
Social science	3,164	3,324	3,332	3,556	3,610	3,769	3,900
Psychology	3,173	3,208	3,281	3,250	3,263	3,419	3,380
Non-S&E[2]	12,476	12,595	13,200	13,503	14,183	14,330	14,815
Grand total	32,370	34,326	36,067	37,522	38,856	39,771	41,017
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	14,055	14,591	15,363	15,909	15,940	16,570	18,164
Engineering	1,913	2,229	2,346	2,474	2,520	2,697	3,053
Sciences	12,142	12,362	13,017	13,435	13,420	13,873	15,131
Natural sciences	7,121	7,452	7,787	8,027	8,033	8,190	9,303
Physical science[1]	2,677	2,678	2,876	2,917	2,897	2,834	3,402
Mathematical science	396	429	422	518	507	590	657
Computer science	275	356	403	451	489	509	543
Biological science	3,141	3,299	3,379	3,521	3,567	3,751	4,085
Agricultural science	632	651	687	620	573	506	616
Social sciences	5,021	4,910	5,230	5,408	5,387	5,683	5,828
Social science	2,215	2,173	2,258	2,390	2,401	2,524	2,691
Psychology	2,806	2,737	2,992	3,018	2,986	3,159	3,137
Non-S&E[2]	10,507	10,435	11,240	11,509	12,016	12,105	12,693
Grand total	24,562	25,026	26,603	27,418	27,956	28,675	30,857
	White, non-Hispanics						
Total science and engineering	12,052	12,501	13,170	13,323	13,336	13,736	13,890
Engineering	1,458	1,726	1,840	1,837	1,880	2,025	2,020
Sciences	10,594	10,775	11,330	11,486	11,456	11,710	11,870
Natural sciences	6,211	6,488	6,789	6,885	6,822	6,836	7,004
Physical science[1]	2,350	2,526	2,502	2,525	2,458	2,366	2,529
Mathematical science	319	369	372	419	425	476	479
Computer science	229	319	339	355	378	410	401
Biological science	2,759	2,904	2,975	3,041	3,068	3,146	3,106
Agricultural science	554	570	601	545	493	438	467
Social sciences	4,383	4,287	4,541	4,601	4,634	4,874	4,866
Social science	1,867	1,834	1,893	1,949	1,998	2,069	2,135
Psychology	2,516	2,453	2,648	2,652	2,636	2,805	2,731
Non-S&E[2]	9,070	9,069	9,709	9,856	10,273	10,292	10,695
Grand total	21,122	21,570	22,879	23,179	23,599	24,027	24,585

See explanatory information and SOURCES at end of table.

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	925	986	1,009	1,180	1,344	1,610	2,989
Engineering	327	361	359	405	451	527	867
Sciences	598	625	650	775	893	1,083	2,122
Natural sciences	436	479	486	597	697	842	1,740
Physical science[1]	161	179	179	189	253	287	689
Mathematical science	41	24	27	57	52	79	142
Computer science	26	52	48	66	86	77	117
Biological science	170	201	200	261	269	370	720
Agricultural science	38	23	32	24	37	29	72
Social sciences	162	146	164	178	196	241	382
Social science	114	91	111	119	137	168	273
Psychology	48	55	53	59	59	73	109
Non S&E[2]	243	282	297	351	417	402	556
Grand total	1,168	1,268	1,306	1,531	1,761	2,012	3,545
	Underrepresented minorities, total						
Total science and engineering	729	801	884	1,007	989	1,053	1,108
Engineering	66	87	98	121	131	118	126
Sciences	663	714	786	886	858	935	982
Natural sciences	284	313	328	370	373	417	471
Physical science[1]	90	119	122	128	132	146	157
Mathematical science	22	19	15	20	18	25	26
Computer science	9	7	6	21	15	14	18
Biological science	133	134	143	165	176	195	222
Agricultural science	30	34	42	36	32	37	48
Social sciences	379	401	458	516	485	518	511
Social science	175	200	215	251	231	253	242
Psychology	204	201	243	265	254	265	269
Non S&E[2]	1,004	949	1,099	1,152	1,182	1,317	1,337
Grand total	1,733	1,750	1,983	2,159	2,171	2,370	2,445
	Black, non Hispanics						
Total science and engineering	319	366	373	459	407	468	496
Engineering	25	33	40	55	49	50	54
Sciences	294	333	333	404	358	418	442
Natural sciences	108	114	103	130	115	149	170
Physical science[1]	22	35	33	34	31	45	52
Mathematical science	11	8	4	11	4	8	11
Computer science	2	1	1	8	5	6	10
Biological science	60	56	50	60	61	74	75
Agricultural science	13	14	15	17	14	16	22
Social sciences	186	219	230	274	243	269	272
Social science	93	122	115	144	137	150	148
Psychology	93	97	115	130	106	119	124
Non S&E[2]	591	596	676	701	706	809	778
Grand total	910	962	1,049	1,160	1,113	1,277	1,274

See explanatory information and SOURCES at end of table.

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Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	357	382	468	492	513	542	548
Engineering	34	47	54	60	71	66	66
Sciences	323	335	414	432	442	476	482
Natural sciences	153	172	212	212	228	249	274
Physical science[1]	61	68	85	81	88	92	98
Mathematical science	11	11	10	9	12	16	13
Computer science	4	4	5	12	8	7	7
Biological science	62	71	89	95	102	114	131
Agricultural science	15	18	23	15	18	20	25
Social sciences	170	163	202	220	214	227	208
Social science	75	70	93	98	81	96	75
Psychology	95	93	109	122	133	131	133
Non-S&E[2]	351	312	369	375	396	431	481
Grand total	708	694	837	867	909	973	1,029
	American Indians or Alaskan Natives						
Total science and engineering	53	53	43	56	69	43	64
Engineering	7	7	4	6	11	2	6
Sciences	46	46	39	50	58	41	58
Natural sciences	23	27	13	28	30	19	27
Physical science[1]	7	16	4	13	13	9	7
Mathematical science	0	0	1	0	2	1	2
Computer science	3	2	0	1	2	1	1
Biological science	11	7	4	10	13	7	16
Agricultural science	2	2	4	4	0	1	1
Social sciences	23	19	26	22	28	22	31
Social science	7	8	7	9	13	7	19
Psychology	16	11	19	13	15	15	12
Non-S&E[2]	62	41	54	76	80	77	78
Grand total	115	94	97	132	149	120	142
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	349	303	300	399	281	172	197
Engineering	62	55	49	111	58	27	40
Sciences	287	248	251	288	223	145	157
Natural sciences	190	172	164	175	141	95	88
Physical science[1]	76	54	73	75	54	35	27
Mathematical science	14	16	8	22	12	10	10
Computer science	11	18	10	9	10	8	7
Biological science	79	60	61	54	54	40	35
Agricultural science	10	24	12	15	11	2	9
Social sciences	97	76	87	113	82	50	69
Social science	59	48	39	71	45	34	41
Psychology	38	28	48	42	37	16	28
Non-S&E[2]	190	135	135	150	144	94	105
Grand total	539	438	435	549	425	266	302

See explanatory information and SOURCES at end of table.

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	4,468	5,391	6,571	7,642	8,092	8,113	7,521
Engineering	1,532	1,940	2,277	2,634	2,743	2,784	2,653
Sciences	2,936	3,451	4,294	5,008	5,349	5,329	4,868
Natural sciences	2,149	2,499	3,232	3,782	4,089	4,056	3,606
Physical science [1]	923	1,012	1,244	1,442	1,582	1,498	1,304
Mathematical science	302	346	424	506	511	517	448
Computer science	143	178	271	340	365	348	343
Biological science	492	608	853	1,059	1,159	1,246	1,058
Agricultural science	289	355	440	435	472	447	453
Social sciences	787	952	1,062	1,226	1,260	1,273	1,262
Social science	702	846	945	1,093	1,104	1,125	1,111
Psychology	85	106	117	133	156	148	151
Non-S&E [2]	1,144	1,257	1,522	1,670	1,861	1,821	1,885
Grand total	5,612	6,648	8,093	9,312	9,953	9,934	9,406
	Citizenship unknown						
Total science and engineering	1,371	1,749	933	468	641	758	497
Engineering	267	374	271	107	175	217	116
Sciences	1,104	1,375	662	361	466	541	381
Natural sciences	575	705	361	189	240	309	191
Physical science [1]	240	294	142	81	95	138	95
Mathematical science	42	85	46	15	40	39	13
Computer science	32	38	31	9	15	23	17
Biological science	206	208	95	66	72	94	57
Agricultural science	55	80	47	18	18	15	9
Social sciences	529	670	301	172	226	232	190
Social science	247	305	129	73	105	120	98
Psychology	282	365	172	99	121	112	92
Non-S&E [2]	825	903	438	324	306	404	237
Grand total	2,196	2,652	1,371	792	947	1,162	734

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	14,582	15,622	16,498	17,088	17,593	17,789	18,283
Engineering	3,470	4,168	4,479	4,748	4,932	5,176	5,187
Sciences	11,112	11,454	12,019	12,340	12,661	12,613	13,096
Natural sciences	7,484	7,857	8,430	8,843	9,015	8,935	9,361
Physical science[1]	3,200	3,217	3,460	3,582	3,616	3,530	3,790
Mathematical science	615	704	734	840	853	882	882
Computer science	385	504	595	683	749	742	766
Biological science	2,479	2,573	2,713	2,874	2,967	3,041	3,094
Agricultural science	805	859	928	864	830	740	829
Social sciences	3,628	3,597	3,589	3,497	3,646	3,678	3,735
Social science	2,153	2,189	2,221	2,243	2,311	2,347	2,457
Psychology	1,475	1,408	1,368	1,254	1,335	1,331	1,278
Non S&E[2]	6,356	6,191	6,464	6,564	6,843	6,869	6,928
Grand total	20,938	21,813	22,962	23,652	24,436	24,658	25,211
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	9,631	9,670	10,182	10,313	10,363	10,546	11,691
Engineering	1,739	1,954	2,070	2,158	2,192	2,349	2,605
Sciences	7,892	7,716	8,112	8,155	8,171	8,197	9,086
Natural sciences	5,232	5,270	5,526	5,684	5,584	5,558	6,388
Physical science[1]	2,189	2,121	2,288	2,306	2,236	2,193	2,633
Mathematical science	319	327	329	406	390	426	506
Computer science	221	312	313	357	406	400	449
Biological science	1,997	2,023	2,068	2,132	2,129	2,167	2,344
Agricultural science	506	487	528	483	423	372	456
Social sciences	2,660	2,446	2,586	2,471	2,587	2,639	2,698
Social science	1,383	1,272	1,366	1,343	1,381	1,418	1,529
Psychology	1,277	1,174	1,220	1,128	1,206	1,221	1,169
Non S&E[2]	5,060	4,864	5,174	5,290	5,430	5,418	5,677
Grand total	14,691	14,534	15,356	15,603	15,793	15,964	17,368
	White, non Hispanics						
Total science and engineering	8,222	8,213	8,646	8,564	8,623	8,723	8,731
Engineering	1,314	1,502	1,614	1,602	1,640	1,764	1,715
Sciences	6,908	6,711	7,034	6,962	6,983	6,959	7,016
Natural sciences	4,583	4,580	4,836	4,910	4,779	4,705	4,811
Physical science[1]	1,932	1,842	2,008	2,000	1,927	1,868	1,998
Mathematical science	258	281	293	335	332	352	361
Computer science	184	252	259	282	309	327	326
Biological science	1,764	1,784	1,821	1,871	1,847	1,835	1,759
Agricultural science	445	421	455	422	364	323	367
Social sciences	2,325	2,131	2,198	2,072	2,204	2,254	2,205
Social science	1,155	1,066	1,123	1,081	1,126	1,160	1,176
Psychology	1,170	1,065	1,075	991	1,078	1,094	1,029
Non S&E[2]	4,388	4,215	4,513	4,564	4,642	4,608	4,825
Grand total	12,610	12,428	13,161	13,148	13,265	13,331	13,556

See explanatory information and SOURCES at end of table.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	694	745	757	806	926	1,079	2,169
Engineering	305	327	326	356	390	466	748
Sciences	389	418	431	450	536	613	1,421
Natural sciences	296	331	336	373	433	501	1,214
Physical science [1]	122	139	136	135	165	182	494
Mathematical science	30	21	20	39	33	43	116
Computer science	20	42	41	51	74	58	101
Biological science	93	112	113	132	136	198	451
Agricultural science	31	17	26	16	25	20	52
Social sciences	93	87	95	77	103	112	207
Social science	76	59	73	62	83	90	175
Psychology	17	28	22	15	20	22	32
Non-S&E [2]	130	160	152	166	208	203	300
Grand total	824	905	909	972	1,134	1,282	2,469
	Underrepresented minorities, total						
Total science and engineering	437	473	540	609	587	605	640
Engineering	60	74	83	101	107	95	105
Sciences	377	399	457	508	480	510	535
Natural sciences	194	217	220	257	252	274	296
Physical science [1]	66	88	82	106	97	112	119
Mathematical science	18	12	10	12	14	22	20
Computer science	7	2	5	16	13	8	15
Biological science	80	86	88	91	104	104	112
Agricultural science	23	29	35	32	24	28	30
Social sciences	183	182	237	251	228	236	239
Social science	113	113	136	150	139	141	145
Psychology	70	69	101	101	89	95	94
Non-S&E [2]	443	404	440	471	494	549	500
Grand total	880	877	980	1,080	1,081	1,154	1,140
	Black, non-Hispanics						
Total science and engineering	189	213	225	266	237	260	282
Engineering	24	30	34	47	43	39	41
Sciences	165	183	191	219	194	221	241
Natural sciences	73	77	71	84	79	98	102
Physical science [1]	18	27	24	28	24	35	38
Mathematical science	9	5	3	7	4	7	8
Computer science	1	0	1	4	4	2	8
Biological science	35	32	29	29	37	42	32
Agricultural science	10	13	14	16	10	12	16
Social sciences	92	106	120	135	115	123	139
Social science	58	70	77	91	87	79	93
Psychology	34	36	43	44	28	44	46
Non-S&E [2]	247	239	254	282	280	317	270
Grand total	436	452	479	548	517	577	552

See explanatory information and SOURCES at end of table

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Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	216	227	290	306	308	320	318
Engineering	29	39	45	50	56	54	60
Sciences	187	188	245	256	252	266	258
Natural sciences	105	120	138	152	151	162	174
Physical science[1]	43	47	55	68	62	70	75
Mathematical science	9	7	6	5	9	14	10
Computer science	4	1	4	11	7	6	7
Biological science	38	50	56	56	59	57	69
Agricultural science	11	15	17	12	14	15	13
Social sciences	82	68	107	104	101	104	84
Social science	50	38	55	52	46	59	41
Psychology	32	30	52	52	55	45	43
Non-S&E[2]	166	149	159	152	174	197	199
Grand total	382	376	449	458	482	517	517
	American Indians or Alaskan Natives						
Total science and engineering	32	33	25	37	42	25	40
Engineering	7	5	4	4	8	2	4
Sciences	25	28	21	33	34	23	36
Natural sciences	16	20	11	21	22	14	20
Physical science[1]	5	14	3	10	11	7	6
Mathematical science	0	0	1	0	1	1	2
Computer science	2	1	0	1	2	0	0
Biological science	7	4	3	6	8	5	11
Agricultural science	2	1	4	4	0	1	1
Social sciences	9	8	10	12	12	9	16
Social science	5	5	4	7	6	3	11
Psychology	4	3	6	5	6	6	5
Non-S&E[2]	30	16	27	37	40	35	31
Grand total	62	49	52	74	82	60	71
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	278	239	237	314	227	139	151
Engineering	60	51	47	99	55	24	37
Sciences	218	188	190	215	172	115	114
Natural sciences	159	142	134	144	120	78	67
Physical science[1]	69	52	62	65	47	31	22
Mathematical science	13	13	6	20	11	9	9
Computer science	10	16	8	8	10	7	7
Biological science	60	41	46	38	42	30	22
Agricultural science	7	20	12	13	10	1	7
Social sciences	59	46	56	71	52	37	47
Social science	39	34	34	50	33	27	33
Psychology	20	12	22	21	19	10	14
Non-S&E[2]	99	85	69	89	86	58	52
Grand total	377	324	306	403	313	197	203

See explanatory information and SOURCES at end of table.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	3,904	4,609	5,590	6,413	6,741	6,658	6,201
Engineering	1,478	1,850	2,157	2,485	2,574	2,623	2,475
Sciences	2,426	2,759	3,433	3,928	4,167	4,035	3,726
Natural sciences	1,794	2,011	2,608	3,003	3,230	3,127	2,802
Physical science [1]	815	852	1,048	1,206	1,296	1,217	1,066
Mathematical science	260	299	363	420	427	422	364
Computer science	138	160	256	317	329	322	302
Biological science	333	400	582	694	787	809	704
Agricultural science	248	300	359	366	391	357	366
Social sciences	632	748	825	925	937	908	924
Social science	584	688	763	848	856	844	853
Psychology	48	60	62	77	81	64	71
Non-S&E [2]	818	835	1,042	1,105	1,222	1,207	1,129
Grand total	4,722	5,444	6,632	7,518	7,963	7,865	7,330
	Citizenship unknown						
Total science and engineering	1,047	1,343	726	362	489	585	391
Engineering	253	364	252	105	166	204	107
Sciences	794	979	474	257	323	381	284
Natural sciences	458	576	296	156	201	250	171
Physical science [1]	196	244	124	70	84	120	91
Mathematical science	36	78	42	14	36	34	12
Computer science	26	32	26	9	14	20	15
Biological science	149	150	63	48	51	65	46
Agricultural science	51	72	41	15	16	11	7
Social sciences	336	403	178	101	122	131	113
Social science	186	229	92	52	74	85	75
Psychology	150	174	86	49	48	46	38
Non-S&E [2]	478	492	248	169	191	244	122
Grand total	1,525	1,835	974	531	680	829	513

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all recipients						
Total science and engineering	5,312	6,109	6,369	6,931	7,080	7,652	7,919
Engineering	242	375	415	467	506	522	635
Sciences	5,070	5,734	5,954	6,464	6,574	7,130	7,284
Natural sciences	2,361	2,799	2,930	3,155	3,347	3,620	3,739
Physical science[1]	640	767	802	858	958	940	1,011
Mathematical science	125	155	158	199	205	264	236
Computer science	65	108	110	117	120	138	137
Biological science	1,360	1,542	1,614	1,772	1,831	2,050	2,106
Agricultural science	171	227	246	209	233	228	249
Social sciences	2,709	2,935	3,024	3,309	3,227	3,510	3,545
Social science	1,011	1,135	1,111	1,313	1,299	1,422	1,443
Psychology	1,698	1,800	1,913	1,996	1,928	2,088	2,102
Non-S&E[2]	6,120	6,404	6,736	6,939	7,340	7,461	7,887
Grand total	11,432	12,513	13,105	13,870	14,420	15,113	15,806
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	4,424	4,921	5,181	5,596	5,577	6,024	6,493
Engineering	174	275	276	316	328	348	448
Sciences	4,250	4,646	4,905	5,280	5,249	5,676	6,045
Natural sciences	1,889	2,182	2,241	2,343	2,449	2,632	2,915
Physical science[1]	488	557	588	611	661	641	769
Mathematical science	77	101	93	112	117	164	151
Computer science	54	84	90	94	83	109	94
Biological science	1,144	1,276	1,311	1,389	1,438	1,584	1,741
Agricultural science	126	164	159	137	150	134	160
Social sciences	2,361	2,464	2,664	2,937	2,800	3,044	3,130
Social science	832	901	892	1,047	1,020	1,106	1,162
Psychology	1,529	1,563	1,772	1,890	1,780	1,938	1,968
Non-S&E[2]	5,447	5,571	6,066	6,219	6,586	6,687	7,016
Grand total	9,871	10,492	11,247	11,815	12,163	12,711	13,509
	White, non-Hispanics						
Total science and engineering	3,830	4,288	4,522	4,739	4,703	5,012	5,159
Engineering	144	224	226	235	240	261	305
Sciences	3,686	4,064	4,296	4,504	4,463	4,751	4,854
Natural sciences	1,628	1,908	1,953	1,975	2,043	2,131	2,193
Physical science[1]	418	484	494	525	531	498	531
Mathematical science	61	88	79	84	93	124	118
Computer science	45	67	80	73	69	83	75
Biological science	995	1,120	1,154	1,170	1,221	1,311	1,349
Agricultural science	109	149	146	123	129	115	120
Social sciences	2,058	2,156	2,343	2,529	2,420	2,620	2,661
Social science	712	768	770	868	862	909	959
Psychology	1,346	1,388	1,573	1,661	1,558	1,711	1,702
Non-S&E[2]	4,682	4,854	5,196	5,292	5,631	5,684	5,870
Grand total	8,512	9,142	9,718	10,031	10,334	10,696	11,029

See explanatory information and SOURCES at end of table.

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Asians						
Total science and engineering	231	241	252	374	418	531	820
Engineering	22	34	33	49	61	61	119
Sciences	209	207	219	325	357	470	701
Natural sciences	140	148	150	224	264	341	526
Physical science[1]	39	40	43	54	88	105	195
Mathematical science	11	3	7	18	19	36	26
Computer science	6	10	7	15	12	19	16
Biological science	77	89	87	129	133	172	269
Agricultural science	7	6	6	8	12	9	20
Social sciences	69	59	69	101	93	129	175
Social science	38	32	38	57	54	78	98
Psychology	31	27	31	44	39	51	77
Non-S&E[2]	113	122	145	185	209	199	256
Grand total	344	363	397	559	627	730	1,076
	Underrepresented minorities, total						
Total science and engineering	292	328	344	398	402	448	468
Engineering	6	13	15	20	24	23	21
Sciences	286	315	329	378	378	425	447
Natural sciences	90	96	108	113	121	143	175
Physical science[1]	24	31	40	22	35	34	38
Mathematical science	4	7	5	8	4	3	6
Computer science	2	5	1	5	2	6	3
Biological science	53	48	55	74	72	91	110
Agricultural science	7	5	7	4	8	9	18
Social sciences	196	219	221	265	257	282	272
Social science	62	87	79	101	92	112	97
Psychology	134	132	142	164	165	170	175
Non-S&E[2]	561	545	659	681	688	768	837
Grand total	853	873	1,003	1,079	1,090	1,216	1,305
	Black, non-Hispanics						
Total science and engineering	130	153	148	193	170	208	214
Engineering	1	3	6	8	6	11	13
Sciences	129	150	142	185	164	197	201
Natural sciences	35	37	32	46	36	51	68
Physical science[1]	4	8	9	6	7	10	14
Mathematical science	2	3	1	4	0	1	3
Computer science	1	1	0	4	1	4	2
Biological science	25	24	21	31	24	32	43
Agricultural science	3	1	1	1	4	4	6
Social sciences	94	113	110	139	128	146	133
Social science	35	52	38	53	50	71	55
Psychology	59	61	72	86	78	75	78
Non-S&E[2]	344	357	422	419	426	492	508
Grand total	474	510	570	612	596	700	722

See explanatory information and SOURCES at end of table.

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Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Hispanics						
Total science and engineering	141	155	178	186	205	222	230
Engineering	5	8	9	10	15	12	6
Sciences	136	147	169	176	190	210	224
Natural sciences	48	52	74	60	77	87	100
Physical science[1]	18	21	30	13	26	22	23
Mathematical science	2	4	4	4	3	2	3
Computer science	0	3	1	1	1	1	0
Biological science	24	21	33	39	43	57	62
Agricultural science	4	3	6	3	4	5	12
Social sciences	88	95	95	116	113	123	124
Social science	25	32	38	46	35	37	34
Psychology	63	63	57	70	78	86	90
Non-S&E[2]	185	163	210	223	222	234	282
Grand total	326	318	388	409	427	456	512
	American Indians or Alaskan Natives						
Total science and engineering	21	20	18	19	27	18	24
Engineering	0	2	0	2	3	0	2
Sciences	21	18	18	17	24	18	22
Natural sciences	7	7	2	7	8	5	7
Physical science[1]	2	2	1	3	2	2	1
Mathematical science	0	0	0	0	1	0	0
Computer science	1	1	0	0	0	1	1
Biological science	4	3	1	4	5	2	5
Agricultural science	0	1	0	0	0	0	0
Social sciences	14	11	16	10	16	13	15
Social science	2	3	3	2	7	4	8
Psychology	12	8	13	8	9	9	7
Non-S&E[2]	32	25	27	39	40	42	47
Grand total	53	45	45	58	67	60	71
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	71	64	63	85	54	33	46
Engineering	2	4	2	12	3	3	3
Sciences	69	60	61	73	51	30	43
Natural sciences	31	30	30	31	21	17	21
Physical science[1]	7	2	11	10	7	4	5
Mathematical science	1	3	2	2	1	1	1
Computer science	1	2	2	1	0	1	0
Biological science	19	19	15	16	12	10	13
Agricultural science	3	4	0	2	1	1	2
Social sciences	38	30	31	42	30	13	22
Social science	20	14	5	21	12	7	8
Psychology	18	16	26	21	18	6	14
Non-S&E[2]	91	50	66	61	58	36	53
Grand total	162	114	129	146	112	69	99

See explanatory information and SOURCES at end of table

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Nonresident aliens [4]						
Total science and engineering	564	782	981	1,229	1,351	1,455	1,320
Engineering	54	90	120	149	169	161	178
Sciences	510	692	861	1,080	1,182	1,294	1,142
Natural sciences	355	488	624	779	859	929	804
Physical science [1]	108	160	196	236	286	281	238
Mathematical science	42	47	61	86	84	95	84
Computer science	5	18	15	23	36	26	41
Biological science	159	208	271	365	372	437	354
Agricultural science	41	55	81	69	81	90	87
Social sciences	155	204	237	301	323	365	338
Social science	118	158	182	245	248	281	258
Psychology	37	46	55	56	75	84	80
Non-S&E [2]	326	422	480	565	639	614	756
Grand total	890	1,204	1,461	1,794	1,990	2,069	2,076
	Citizenship unknown						
Total science and engineering	324	406	207	106	152	173	106
Engineering	14	10	19	2	9	13	9
Sciences	310	396	188	104	143	160	97
Natural sciences	117	129	65	33	39	59	20
Physical science [1]	44	50	18	11	11	18	4
Mathematical science	6	7	4	1	4	5	1
Computer science	6	6	5	0	1	3	2
Biological science	57	58	32	18	21	29	11
Agricultural science	4	8	6	3	2	4	2
Social sciences	193	267	123	71	104	101	77
Social science	61	76	37	21	31	35	23
Psychology	132	191	86	50	73	66	54
Non-S&E [2]	347	411	190	155	115	160	115
Grand total	671	817	397	261	267	333	221

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 13. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total all black recipients						
Total science and engineering	17,230	17,385	18,230	19,987	22,431	24,421	26,289
Engineering	2,315	2,067	2,072	2,229	2,362	2,577	2,659
Sciences	14,915	15,318	16,158	17,758	20,069	21,844	23,630
Natural sciences	6,524	6,005	5,782	5,834	6,401	6,572	7,559
Physical science[1]	823	697	650	753	816	836	921
Mathematical science	834	782	720	811	904	965	992
Computer science	2,820	2,457	2,247	1,997	2,090	2,213	2,398
Biological science	1,890	1,916	1,994	2,111	2,385	2,739	2,980
Agricultural science	157	143	171	162	206	219	268
Social sciences	8,391	9,313	10,376	11,924	13,668	14,872	16,071
Social science	5,940	6,570	7,226	8,236	9,489	10,254	10,835
Psychology	2,451	2,743	3,150	3,688	4,179	4,618	5,236
Non S&E[2]	37,873	39,452	41,071	45,022	49,880	52,246	56,027
Grand total	55,103	56,837	59,301	65,009	71,311	76,667	82,316
	Black recipients from HBCUs						
Total science and engineering	5,229	5,054	5,190	5,679	6,363	7,368	7,804
Engineering	557	474	524	589	594	700	690
Sciences	4,672	4,580	4,666	5,090	5,769	6,668	7,114
Natural sciences	2,750	2,513	2,353	2,363	2,599	3,021	3,105
Physical science[1]	346	320	296	358	376	390	421
Mathematical science	425	381	307	369	420	463	449
Computer science	1,187	1,048	899	748	760	904	904
Biological science	714	693	764	792	906	1,155	1,197
Agricultural science	78	71	87	96	117	109	134
Social sciences	1,922	2,067	2,313	2,727	3,170	3,647	4,009
Social science	1,457	1,517	1,651	1,886	2,201	2,507	2,701
Psychology	465	550	662	841	969	1,140	1,308
Non S&E[2]	11,360	10,871	11,155	12,284	13,346	14,481	15,622
Grand total	16,589	15,925	16,345	17,963	19,709	21,849	23,426
	Percent from HBCUs						
Total science and engineering	30.3	29.1	28.5	28.4	28.4	30.2	29.7
Engineering	24.1	22.9	25.3	26.4	25.1	27.2	25.9
Sciences	31.3	29.9	28.9	28.7	28.7	30.5	30.1
Natural sciences	42.2	41.8	40.7	40.5	40.6	43.3	41.1
Physical science[1]	42.0	45.9	45.5	47.5	46.1	46.7	45.7
Mathematical science	51.0	48.1	42.6	45.5	46.5	48.0	45.3
Computer science	42.1	42.7	40.0	37.5	37.3	40.8	37.7
Biological science	37.8	36.2	38.3	37.5	38.0	42.2	40.2
Agricultural science	49.7	49.7	50.9	59.3	56.8	49.8	50.0
Social sciences	22.9	22.2	22.3	22.9	23.2	24.5	24.9
Social science	24.5	23.1	22.8	22.9	23.2	24.4	24.9
Psychology	19.0	20.1	21.0	22.8	23.2	24.7	25.0
Non S&E[2]	30.0	27.6	27.2	27.3	27.3	27.7	27.9
Grand total	30.1	28.0	27.6	27.6	27.6	28.5	28.5

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

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Table 14. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all black recipients						
Total science and engineering	7,686	7,685	7,830	8,448	9,375	10,099	10,806
Engineering	1,606	1,397	1,416	1,484	1,614	1,764	1,784
Sciences	6,280	6,288	6,414	6,964	7,761	8,335	9,022
Natural sciences	2,939	2,732	2,476	2,538	2,709	2,872	3,146
Physical science[1]	433	365	292	391	381	370	464
Mathematical science	399	374	342	380	374	444	457
Computer science	1,284	1,205	1,074	971	1,092	1,049	1,101
Biological science	723	700	656	696	749	883	927
Agricultural science	100	88	110	100	113	126	137
Social sciences	3,341	3,556	3,938	4,426	5,052	5,463	5,876
Social science	2,680	2,911	3,144	3,547	4,070	4,364	4,644
Psychology	661	645	794	879	982	1,099	1,232
Non-S&E[2]	14,056	14,228	14,760	15,790	17,143	18,275	19,300
Grand total	21,942	21,913	22,590	24,238	26,518	28,374	30,106
	Black recipients from HBCUs						
Total science and engineering	2,337	2,112	2,086	2,211	2,450	2,761	2,940
Engineering	371	308	331	359	380	430	425
Sciences	1,966	1,804	1,755	1,852	2,070	2,331	2,515
Natural sciences	1,193	1,056	935	951	972	1,089	1,162
Physical science[1]	156	160	127	163	145	150	197
Mathematical science	213	179	134	164	150	196	181
Computer science	502	460	377	333	364	361	381
Biological science	264	206	231	231	238	317	334
Agricultural science	58	51	66	60	75	65	69
Social sciences	773	748	820	901	1,098	1,242	1,353
Social science	661	621	657	720	868	989	1,060
Psychology	112	127	163	181	230	253	293
Non-S&E[2]	4,239	3,870	3,980	4,219	4,637	5,106	5,517
Grand total	6,576	5,982	6,066	6,430	7,087	7,867	8,457
	Percent from HBCUs						
Total science and engineering	29.6	27.5	26.6	26.2	26.1	27.3	27.2
Engineering	23.1	22.0	23.4	24.2	23.5	24.4	23.8
Sciences	31.3	28.7	27.4	26.6	26.7	28.0	27.9
Natural sciences	40.6	38.7	37.8	37.5	35.9	37.9	36.9
Physical science[1]	36.0	43.8	43.5	41.7	38.1	40.5	42.5
Mathematical science	53.4	47.9	39.2	43.2	40.1	44.1	39.6
Computer science	39.1	38.2	35.1	34.3	33.3	34.4	32.8
Biological science	36.5	29.4	35.1	33.2	31.8	35.9	36.0
Agricultural science	58.0	58.0	60.0	60.0	66.4	51.6	50.4
Social sciences	23.1	21.0	20.8	20.4	21.7	22.7	23.0
Social science	24.7	21.3	20.9	20.3	21.3	22.7	22.8
Psychology	16.9	19.7	20.5	20.6	23.4	23.0	23.8
Non-S&E[2]	30.2	27.2	27.0	26.7	27.0	27.9	28.6
Grand total	30.0	27.3	26.9	26.5	26.7	27.7	28.1

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 15. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all black recipients						
Total science and engineering	9,344	9,700	10,400	11,539	13,056	14,322	15,483
Engineering	709	670	656	745	748	813	875
Sciences	8,635	9,030	9,744	10,794	12,308	13,509	14,608
Natural sciences	3,585	3,273	3,306	3,296	3,692	4,100	4,413
Physical science[1]	390	332	358	362	435	466	457
Mathematical science	435	418	378	431	530	521	535
Computer science	1,536	1,252	1,173	1,026	998	1,164	1,237
Biological science	1,167	1,216	1,336	1,415	1,636	1,856	2,053
Agricultural science	57	55	61	62	93	93	131
Social sciences	5,050	5,757	6,438	7,498	8,616	9,409	10,195
Social science	3,260	3,659	4,082	4,689	5,419	5,890	6,191
Psychology	1,790	2,098	2,356	2,809	3,197	3,519	4,004
Non-S&E[2]	23,817	25,224	26,311	29,232	31,737	33,971	36,727
Grand total	33,161	34,924	36,711	40,771	44,793	48,293	52,210
	Black recipients from HBCUs						
Total science and engineering	2,892	2,942	3,104	3,468	3,913	4,607	4,864
Engineering	186	166	193	230	214	270	265
Sciences	2,706	2,776	2,911	3,238	3,699	4,337	4,599
Natural sciences	1,557	1,457	1,418	1,412	1,627	1,932	1,943
Physical science[1]	190	160	169	195	231	240	224
Mathematical science	212	202	173	205	270	267	268
Computer science	685	588	522	415	416	543	523
Biological science	450	487	533	561	668	838	883
Agricultural science	20	20	21	36	42	44	65
Social sciences	1,149	1,319	1,493	1,826	2,072	2,405	2,656
Social science	796	896	994	1,166	1,333	1,518	1,641
Psychology	353	423	499	660	739	887	1,015
Non-S&E[2]	7,121	7,001	7,175	8,065	8,709	9,375	10,105
Grand total	10,013	9,943	10,279	11,533	12,622	13,982	14,969
	Percent from HBCUs						
Total science and engineering	31.0	30.3	29.8	30.1	30.0	32.2	31.4
Engineering	26.2	24.8	29.4	30.9	28.6	33.2	30.3
Sciences	31.3	30.7	29.9	30.0	30.1	32.1	31.5
Natural sciences	43.4	44.5	42.9	42.8	44.1	47.1	44.0
Physical science[1]	48.7	48.2	47.2	53.9	53.1	51.5	49.0
Mathematical science	48.7	48.3	45.8	47.6	50.9	51.2	50.1
Computer science	44.6	47.0	44.5	40.4	41.7	46.6	42.3
Biological science	38.6	40.0	39.9	39.6	40.8	45.2	42.0
Agricultural science	35.1	36.4	34.4	58.1	45.2	47.3	49.6
Social sciences	22.8	22.9	23.2	24.4	24.0	25.6	26.1
Social science	24.4	24.5	24.4	24.9	24.6	25.8	26.5
Psychology	19.7	20.2	21.2	23.5	23.1	25.2	25.3
Non-S&E[2]	29.9	27.8	27.3	27.6	27.4	27.6	27.5
Grand total	30.2	28.5	28.0	28.3	28.2	29.0	28.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 16. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all black recipients						
Total science and engineering	1,784	1,652	1,847	2,090	2,356	2,554	2,849
Engineering	403	355	387	398	466	564	589
Sciences	1,381	1,297	1,460	1,692	1,890	1,990	2,260
Natural sciences	581	495	527	644	699	716	821
Physical science[1]	79	78	87	73	98	105	127
Mathematical science	73	59	70	100	77	98	109
Computer science	207	198	232	283	316	308	365
Biological science	167	124	110	137	149	135	142
Agricultural science	55	36	28	51	59	70	78
Social sciences	800	802	933	1,048	1,191	1,274	1,439
Social science	424	407	462	594	660	730	803
Psychology	376	395	471	454	531	544	636
Non-S&E[2]	11,389	11,803	12,626	13,767	15,064	16,343	18,087
Grand total	13,173	13,455	14,473	15,857	17,420	18,897	20,936
	Black recipients from HBCUs						
Total science and engineering	318	314	339	391	426	453	484
Engineering	27	38	42	37	41	41	43
Sciences	291	276	297	354	385	412	441
Natural sciences	177	143	153	180	188	204	204
Physical science[1]	23	23	24	24	21	36	21
Mathematical science	17	13	17	21	17	23	21
Computer science	39	42	63	59	76	75	87
Biological science	67	47	37	46	47	38	34
Agricultural science	31	18	12	30	27	32	41
Social sciences	114	133	144	174	197	208	237
Social science	67	78	69	114	125	107	126
Psychology	47	55	75	60	72	101	111
Non-S&E[2]	2,125	2,054	2,019	2,127	2,205	2,326	2,721
Grand total	2,443	2,368	2,358	2,518	2,631	2,779	3,205
	Percent from HBCUs						
Total science and engineering	17.8	19.0	18.4	18.7	18.1	17.7	17.0
Engineering	6.7	10.7	10.9	9.3	8.8	7.3	7.3
Sciences	21.1	21.3	20.3	20.9	20.4	20.7	19.5
Natural sciences	30.5	28.9	29.0	28.0	26.9	28.5	24.8
Physical science[1]	29.1	29.5	27.6	32.9	21.4	34.3	16.5
Mathematical science	23.3	22.0	24.3	21.0	22.1	23.5	19.3
Computer science	18.8	21.2	27.2	20.8	24.1	24.4	23.8
Biological science	40.1	37.9	33.6	33.6	31.5	28.1	23.9
Agricultural science	56.4	50.0	42.9	58.8	45.8	45.7	52.6
Social sciences	14.2	16.6	15.4	16.6	16.5	16.3	16.5
Social science	15.8	19.2	14.9	19.2	18.9	14.7	15.7
Psychology	12.5	13.9	15.9	13.2	13.6	18.6	17.5
Non-S&E[2]	18.7	17.4	16.0	15.4	14.6	14.2	15.0
Grand total	18.5	17.6	16.3	15.9	15.1	14.7	15.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

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Table 17. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total all black recipients						
Total science and engineering	990	878	950	1,028	1,166	1,253	1,376
Engineering	315	262	287	299	332	407	422
Sciences	675	616	663	729	834	846	954
Natural sciences	338	290	307	338	382	386	435
Physical science[1]	45	56	61	43	66	58	74
Mathematical science	45	32	37	53	44	48	62
Computer science	126	119	140	150	175	193	205
Biological science	80	59	51	58	61	47	48
Agricultural science	42	24	18	34	36	40	46
Social sciences	337	326	356	391	452	460	519
Social science	221	206	223	262	315	345	358
Psychology	116	120	133	129	137	115	161
Non-S&E[2]	3,895	4,086	4,219	4,591	4,628	5,219	5,631
Grand total	4,885	4,964	5,169	5,619	5,794	6,472	7,007
	Black recipients from HBCUs						
Total science and engineering	155	154	164	172	195	191	208
Engineering	15	26	32	29	27	23	28
Sciences	140	128	132	143	168	168	180
Natural sciences	93	76	84	90	100	106	98
Physical science[1]	14	14	14	14	16	19	10
Mathematical science	10	8	9	7	7	9	12
Computer science	19	24	35	33	46	44	40
Biological science	28	19	17	15	15	11	7
Agricultural science	22	11	9	21	16	23	29
Social sciences	47	52	48	53	68	62	82
Social science	36	39	28	39	47	40	49
Psychology	11	13	20	14	21	22	33
Non-S&E[2]	627	576	582	594	587	631	734
Grand total	782	730	746	766	782	822	942
	Percent from HBCUs						
Total science and engineering	15.7	17.5	17.3	16.7	16.7	15.2	15.1
Engineering	4.8	9.9	11.1	9.7	8.1	5.7	6.6
Sciences	20.7	20.8	19.9	19.6	20.1	19.9	18.9
Natural sciences	27.5	26.2	27.4	26.6	26.2	27.5	22.5
Physical science[1]	31.1	25.0	23.0	32.6	24.2	32.8	13.5
Mathematical science	22.2	25.0	24.3	13.2	15.9	18.8	19.4
Computer science	15.1	20.2	25.0	22.0	26.3	22.8	19.5
Biological science	35.0	32.2	33.3	25.9	24.6	23.4	14.6
Agricultural science	52.4	45.8	50.0	61.8	44.4	57.5	63.0
Social sciences	13.9	16.0	13.5	13.6	15.0	13.5	15.8
Social science	16.3	18.9	12.6	14.9	14.9	11.6	13.7
Psychology	9.5	10.8	15.0	10.9	15.3	19.1	20.5
Non-S&E[2]	16.1	14.1	13.8	12.9	12.7	12.1	13.0
Grand total	16.0	14.7	14.4	13.6	13.5	12.7	13.4

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 18. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all black recipients						
Total science and engineering	794	774	897	1,062	1,190	1,301	1,473
Engineering	88	93	100	99	134	157	167
Sciences	706	681	797	963	1,056	1,144	1,306
Natural sciences	243	205	220	306	317	330	386
Physical science[1]	34	22	26	30	32	47	53
Mathematical science	28	27	33	47	33	50	47
Computer science	81	79	92	133	141	115	160
Biological science	87	65	59	79	88	88	94
Agricultural science	13	12	10	17	23	30	32
Social sciences	463	476	577	657	739	814	920
Social science	203	201	239	332	345	385	445
Psychology	260	275	338	325	394	429	475
Non-S&E[2]	7,494	7,717	8,407	9,176	10,436	11,124	12,456
Grand total	8,288	8,491	9,304	10,238	11,626	12,425	13,929
	Black recipients from HBCUs						
Total science and engineering	163	160	175	219	231	262	276
Engineering	12	12	10	8	14	18	15
Sciences	151	148	165	211	217	244	261
Natural sciences	84	67	69	90	88	98	106
Physical science[1]	9	9	10	10	5	17	11
Mathematical science	7	5	8	14	10	14	9
Computer science	20	18	28	26	30	31	47
Biological science	39	28	20	31	32	27	27
Agricultural science	9	7	3	9	11	9	12
Social sciences	67	81	96	121	129	146	155
Social science	31	39	41	75	78	67	77
Psychology	36	42	55	46	51	79	78
Non-S&E[2]	1,498	1,478	1,437	1,533	1,618	1,695	1,987
Grand total	1,661	1,638	1,612	1,752	1,849	1,957	2,263
	Percent from HBCUs						
Total science and engineering	20.5	20.7	19.5	20.6	19.4	20.1	18.7
Engineering	13.6	12.9	10.0	8.1	10.4	11.5	9.0
Sciences	21.4	21.7	20.7	21.9	20.5	21.3	20.0
Natural sciences	34.6	32.7	31.4	29.4	27.8	29.7	27.5
Physical science[1]	26.5	40.9	38.5	33.3	15.6	36.2	20.8
Mathematical science	25.0	18.5	24.2	29.8	30.3	28.0	19.1
Computer science	24.7	22.8	30.4	19.5	21.3	27.0	29.4
Biological science	44.8	43.1	33.9	39.2	36.4	30.7	28.7
Agricultural science	69.2	58.3	30.0	52.9	47.8	30.0	37.5
Social sciences	14.5	17.0	16.6	18.4	17.5	17.9	16.8
Social science	15.3	19.4	17.2	22.6	22.6	17.4	17.3
Psychology	13.8	15.3	16.3	14.2	12.9	18.4	16.4
Non-S&E[2]	20.0	19.2	17.1	16.7	15.5	15.2	16.0
Grand total	20.0	19.3	17.3	17.1	15.9	15.8	16.2

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 19. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1967-94, selected years

Field	1967	1989	1990	1991	1992	1993	1994
	Total, all black recipients						
Total science and engineering	319	366	373	459	407	468	496
Engineering	25	33	40	55	49	50	54
Sciences	294	333	333	404	358	418	442
Natural sciences	108	114	103	130	115	149	170
Physical science[1]	22	35	33	34	31	45	52
Mathematical science	11	8	4	11	4	8	11
Computer science	2	1	1	8	5	6	10
Biological science	60	56	50	60	61	74	75
Agricultural science	13	14	15	17	14	16	22
Social sciences	186	219	230	274	243	269	272
Social science	93	122	115	144	137	150	148
Psychology	93	97	115	130	106	119	124
Non-S&E[2]	591	596	676	701	706	809	778
Grand total	910	962	1,049	1,160	1,113	1,277	1,274
	Black recipients from HBCUs						
Total science and engineering	35	34	35	48	42	59	49
Engineering	0	1	0	3	2	0	4
Sciences	35	33	35	45	40	59	45
Natural sciences	15	15	14	16	11	25	14
Physical science[1]	1	3	4	5	0	6	3
Mathematical science	0	3	0	0	0	0	2
Computer science	0	0	0	0	0	0	0
Biological science	14	9	10	11	11	18	9
Agricultural science	0	0	0	0	0	1	0
Social sciences	20	18	21	29	29	34	31
Social science	11	12	13	10	19	22	11
Psychology	9	6	8	19	10	12	20
Non-S&E[2]	42	52	105	59	61	75	82
Grand total	77	86	140	107	103	134	131
	Percent from HBCUs						
Total science and engineering	11.0	9.3	9.4	10.5	10.3	12.6	9.9
Engineering	0	3.0	0	5.5	4.1	0	7.4
Sciences	11.9	9.9	10.5	11.1	11.2	14.1	10.2
Natural sciences	13.9	13.2	13.6	12.3	9.6	16.8	8.2
Physical science[1]	4.5	8.6	12.1	14.7	0	13.3	5.8
Mathematical science	0	37.5	0	0	0	0	18.2
Computer science	0	0	0	0	0	0	0
Biological science	23.3	16.1	20.0	18.3	18.0	24.3	12.0
Agricultural science	0	0	0	0	0	6.3	0
Social sciences	10.8	8.2	9.1	10.6	11.9	12.6	11.4
Social science	11.8	9.8	11.3	6.9	13.9	14.7	7.4
Psychology	9.7	6.2	7.0	14.6	9.4	10.1	16.1
Non-S&E[2]	7.1	8.7	15.5	8.4	8.6	9.3	10.5
Grand total	8.5	8.9	13.3	9.2	9.3	10.5	10.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 20. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all black recipients						
Total science and engineering	189	213	225	266	237	260	282
Engineering	24	30	34	47	43	39	41
Sciences	165	183	191	219	194	221	241
Natural sciences	73	77	71	84	79	98	102
Physical science[1]	18	27	24	28	24	35	38
Mathematical science	9	5	3	7	4	7	8
Computer science	1	0	1	4	4	2	8
Biological science	35	32	29	29	37	42	32
Agricultural science	10	13	14	16	10	12	16
Social sciences	92	106	120	135	115	123	139
Social science	58	70	77	91	87	79	93
Psychology	34	36	43	44	28	44	46
Non-S&E[2]	247	239	254	282	280	317	270
Grand total	436	452	479	548	517	577	552
	Black recipients from HBCUs						
Total science and engineering	20	20	22	28	22	29	27
Engineering	0	1	0	3	2	0	3
Sciences	20	19	22	25	20	29	24
Natural sciences	8	9	7	11	4	14	6
Physical science[1]	1	2	2	4	0	5	2
Mathematical science	0	2	0	0	0	0	1
Computer science	0	0	0	0	0	0	0
Biological science	7	5	5	7	4	8	3
Agricultural science	0	0	0	0	0	1	0
Social sciences	12	10	15	14	16	15	18
Social science	9	9	11	8	14	12	10
Psychology	3	1	4	6	2	3	8
Non-S&E[2]	17	20	39	26	25	26	27
Grand total	37	40	61	54	47	55	54
	Percent from HBCUs						
Total science and engineering	10.6	9.4	9.8	10.5	9.3	11.2	9.6
Engineering	0	3.3	0	6.4	4.7	0	7.3
Sciences	12.1	10.4	11.5	11.4	10.3	13.1	10.0
Natural sciences	11.0	11.7	9.9	13.1	5.1	14.3	5.9
Physical science[1]	5.6	7.4	8.3	14.3	0	14.3	5.3
Mathematical science	0	40.0	0	0	0	0	12.5
Computer science	0	0	0	0	0	0	0
Biological science	20.0	15.6	17.2	24.1	10.8	19.0	9.4
Agricultural science	0	0	0	0	0	8.3	0
Social sciences	13.0	9.4	12.5	10.4	13.9	12.2	12.9
Social science	15.5	12.9	14.3	8.8	16.1	15.2	10.8
Psychology	8.8	2.8	9.3	13.6	7.1	6.8	17.4
Non-S&E[2]	6.9	8.4	15.4	9.2	8.9	8.2	10.0
Grand total	8.5	8.8	12.7	9.9	9.1	9.5	9.8

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

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Table 21. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all black recipients						
Total science and engineering	130	153	148	193	170	208	214
Engineering	1	3	6	8	6	11	13
Sciences	129	150	142	185	164	197	201
Natural sciences	35	37	32	46	36	51	68
Physical science[1]	4	8	9	6	7	10	14
Mathematical science	2	3	1	4	0	1	3
Computer science	1	1	0	4	1	4	2
Biological science	25	24	21	31	24	32	43
Agricultural science	3	1	1	1	4	4	6
Social sciences	94	113	110	139	128	146	133
Social science	35	52	38	53	50	71	55
Psychology	59	61	72	86	78	75	78
Non-S&E[2]	344	357	422	419	426	492	508
Grand total	474	510	570	612	596	700	722
	Black recipients from HBCUs						
Total science and engineering	15	14	13	20	20	30	22
Engineering	0	0	0	0	0	0	1
Sciences	15	14	13	20	20	30	21
Natural sciences	7	6	7	5	7	11	8
Physical science[1]	0	1	2	1	0	1	1
Mathematical science	0	1	0	0	0	0	1
Computer science	0	0	0	0	0	0	0
Biological science	7	4	5	4	7	10	6
Agricultural science	0	0	0	0	0	0	0
Social sciences	8	8	6	15	13	19	13
Social science	2	3	2	2	5	10	1
Psychology	6	5	4	13	8	9	12
Non-S&E[2]	25	32	66	33	36	49	55
Grand total	40	46	79	53	56	79	77
	Percent from HBCUs						
Total science and engineering	11.5	9.2	8.8	10.4	11.8	14.4	10.3
Engineering	0	0	0	0	0	0	7.7
Sciences	11.6	9.3	9.2	10.8	12.2	15.2	10.4
Natural sciences	20.0	16.2	21.9	10.9	19.4	21.6	11.8
Physical science[1]	0	12.5	22.2	16.7	0	10.0	7.1
Mathematical science	0	33.3	0	0	0	0	33.3
Computer science	0	0	0	0	0	0	0
Biological science	28.0	16.7	23.8	12.9	29.2	31.3	14.0
Agricultural science	0	0	0	0	0	0	0
Social sciences	8.5	7.1	5.5	10.8	10.2	13.0	9.8
Social science	5.7	5.8	5.3	3.8	10.0	14.1	1.8
Psychology	10.2	8.2	5.6	15.1	10.3	12.0	15.4
Non-S&E[2]	7.3	9.0	15.6	7.9	8.5	10.0	10.8
Grand total	8.4	9.0	13.9	8.7	9.4	11.3	10.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 22. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	12,419	13,327	13,918	15,351	17,391	18,442	20,529
Engineering	2,554	2,561	2,511	2,566	2,733	2,961	3,143
Sciences	9,865	10,766	11,407	12,785	14,658	15,481	17,386
Natural sciences	4,660	4,417	4,357	4,705	4,892	5,034	5,648
Physical science[1]	585	563	522	533	546	599	733
Mathematical science	321	373	413	480	482	470	543
Computer science	1,375	1,195	1,085	1,215	1,173	1,096	1,135
Biological science	2,146	2,090	2,119	2,264	2,477	2,652	2,901
Agricultural science	233	196	218	213	214	217	336
Social sciences	5,205	6,349	7,050	8,080	9,766	10,447	11,738
Social science	3,503	4,197	4,645	5,334	6,519	6,860	7,748
Psychology	1,702	2,152	2,405	2,746	3,247	3,587	3,990
Non-S&E[2]	25,777	28,034	29,946	33,676	35,616	39,403	42,154
Grand total	38,196	41,361	43,864	49,027	53,007	57,845	62,683
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	3,065	3,056	2,983	2,952	3,007	3,001	3,205
Engineering	584	651	626	554	686	697	742
Sciences	2,481	2,405	2,357	2,398	2,321	2,304	2,463
Natural sciences	1,556	1,479	1,447	1,446	1,339	1,300	1,374
Physical science[1]	173	184	184	154	172	172	227
Mathematical science	58	69	69	108	34	41	27
Computer science	337	326	261	327	296	254	258
Biological science	916	858	862	797	837	833	808
Agricultural science	72	42	71	60	0	0	54
Social sciences	925	926	910	952	982	1,004	1,089
Social science	576	501	495	523	496	508	590
Psychology	349	425	415	429	486	496	499
Non-S&E[2]	8,871	9,146	9,192	9,558	9,748	10,358	10,249
Grand total	11,936	12,202	12,175	12,510	12,755	13,359	13,454
	Percent from institutions in Puerto Rico						
Total science and engineering	24.7	22.9	21.4	19.2	17.3	16.3	15.6
Engineering	22.9	25.4	24.9	21.6	25.1	23.5	23.6
Sciences	25.1	22.3	20.7	18.8	15.8	14.9	14.2
Natural sciences	33.4	33.5	33.2	30.7	27.4	25.8	24.3
Physical science[1]	29.6	32.7	35.2	28.9	31.5	28.7	31.0
Mathematical science	18.1	18.5	16.7	22.5	7.1	8.7	5.0
Computer science	24.5	27.3	24.1	26.9	25.2	23.2	22.7
Biological science	42.7	41.1	40.7	35.2	33.8	31.4	27.9
Agricultural science	30.9	21.4	32.6	28.2	0	0	16.1
Social sciences	17.8	14.6	12.9	11.8	10.1	9.6	9.3
Social science	16.4	11.9	10.7	9.8	7.6	7.4	7.6
Psychology	20.5	19.7	17.3	15.6	15.0	13.8	12.5
Non-S&E[2]	34.4	32.6	30.7	28.4	27.4	26.3	24.3
Grand total	31.2	29.5	27.8	25.5	24.1	23.1	21.5

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94.

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Table 23. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	6,974	7,318	7,434	7,888	8,730	9,160	10,190
Engineering	2,100	2,100	2,035	2,039	2,187	2,355	2,495
Sciences	4,874	5,218	5,399	5,849	6,543	6,805	7,695
Natural sciences	2,516	2,432	2,328	2,458	2,497	2,608	2,925
Physical science[1]	377	362	311	318	326	361	415
Mathematical science	196	224	249	259	279	273	300
Computer science	766	750	669	738	724	700	719
Biological science	1,018	965	955	1,019	1,043	1,144	1,298
Agricultural science	159	131	144	124	125	130	193
Social sciences	2,358	2,786	3,071	3,391	4,046	4,197	4,770
Social science	1,845	2,153	2,384	2,634	3,220	3,269	3,774
Psychology	513	633	687	757	826	928	996
Non-S&E[2]	9,664	10,684	11,249	12,893	13,296	14,665	15,670
Grand total	16,638	18,002	18,683	20,781	22,026	23,825	25,860
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	1,524	1,559	1,462	1,365	1,362	1,339	1,426
Engineering	453	525	481	398	498	511	534
Sciences	1,071	1,034	981	967	864	828	892
Natural sciences	730	671	626	612	520	496	540
Physical science[1]	98	91	90	70	78	70	86
Mathematical science	30	39	47	50	20	24	15
Computer science	172	197	143	170	159	147	149
Biological science	377	322	302	293	263	255	258
Agricultural science	53	22	44	29	0	0	32
Social sciences	341	363	355	355	344	332	352
Social science	272	257	252	245	243	211	248
Psychology	69	106	103	110	101	121	104
Non-S&E[2]	2,578	2,814	2,804	3,204	2,890	3,030	3,087
Grand total	4,102	4,373	4,266	4,569	4,252	4,369	4,513
	Percent from institutions in Puerto Rico						
Total science and engineering	21.9	21.3	19.7	17.3	15.6	14.6	14.0
Engineering	21.6	25.0	23.6	19.5	22.8	21.7	21.4
Sciences	22.0	19.8	18.2	16.5	13.2	12.2	11.6
Natural sciences	29.0	27.6	26.9	24.9	20.8	19.0	18.5
Physical science[1]	26.0	25.1	28.9	22.0	23.9	19.4	20.7
Mathematical science	15.3	17.4	18.9	19.3	7.2	8.8	5.0
Computer science	22.5	26.3	21.4	23.0	22.0	21.0	20.7
Biological science	37.0	33.4	31.6	28.8	25.2	22.3	19.9
Agricultural science	33.3	16.8	30.6	23.4	0	0	16.6
Social sciences	14.5	13.0	11.6	10.5	8.5	7.9	7.4
Social science	14.7	11.9	10.6	9.3	7.5	6.5	6.6
Psychology	13.5	16.7	15.0	14.5	12.2	13.0	10.4
Non-S&E[2]	26.7	26.3	24.9	24.9	21.7	20.7	19.7
Grand total	24.7	24.3	22.8	22.0	19.3	18.3	17.5

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94

Table 24. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	5,445	6,009	6,484	7,463	8,661	9,282	10,339
Engineering	454	461	476	527	546	606	648
Sciences	4,991	5,548	6,008	6,936	8,115	8,676	9,691
Natural sciences	2,144	1,985	2,029	2,247	2,395	2,426	2,723
Physical science[1]	208	201	211	215	220	238	318
Mathematical science	125	149	164	221	203	197	243
Computer science	609	445	416	477	449	396	416
Biological science	1,128	1,125	1,164	1,245	1,434	1,508	1,603
Agricultural science	74	65	74	89	89	87	143
Social sciences	2,847	3,563	3,979	4,689	5,720	6,250	6,968
Social science	1,658	2,044	2,261	2,700	3,299	3,591	3,974
Psychology	1,189	1,519	1,718	1,989	2,421	2,659	2,994
Non-S&E[2]	16,113	17,350	18,697	20,783	22,320	24,738	26,484
Grand total	21,558	23,359	25,181	28,246	30,981	34,020	36,823
	Hispanic recipients from institutions in Puerte Rico						
Total science and engineering	1,541	1,497	1,521	1,587	1,645	1,662	1,779
Engineering	131	126	145	156	188	186	208
Sciences	1,410	1,371	1,376	1,431	1,457	1,476	1,571
Natural sciences	826	808	821	834	819	804	834
Physical science[1]	75	93	94	84	94	102	141
Mathematical science	28	30	22	58	14	17	12
Computer science	165	129	118	157	137	107	109
Biological science	539	536	560	504	574	578	550
Agricultural science	19	20	27	31	0	0	22
Social sciences	584	563	555	597	638	672	737
Social science	304	244	243	278	253	297	342
Psychology	280	319	312	319	385	375	395
Non-S&E[2]	6,293	6,332	6,388	6,354	6,858	7,328	7,162
Grand total	7,834	7,829	7,909	7,941	8,503	8,990	8,941
	Percent from institutions in Puerto Rico						
Total science and engineering	28.3	24.9	23.5	21.3	19.0	17.9	17.2
Engineering	28.9	27.3	30.5	29.6	34.4	30.7	32.1
Sciences	28.3	24.7	22.9	20.6	18.0	17.0	16.2
Natural sciences	38.5	40.7	40.5	37.1	34.2	33.1	30.6
Physical science[1]	36.1	46.3	44.5	39.1	42.7	42.9	44.3
Mathematical science	22.4	20	13.4	26.2	6.9	8.6	4.9
Computer science	27.1	29.0	28.4	32.9	30.5	27.0	26.2
Biological science	47.8	47.6	48.1	40.5	40.0	38.3	34.3
Agricultural science	25.7	30.8	36.5	34.8	0	0	15.4
Social sciences	20.5	15.8	13.9	12.7	11.2	10.8	10.6
Social science	18.3	11.9	10.7	10.3	7.7	8.3	8.6
Psychology	23.5	21.0	18.2	16.0	15.9	14.1	13.2
Non-S&E[2]	39.1	36.5	34.2	30.6	30.7	29.6	27.0
Grand total	36.3	33.5	31.4	28.1	27.4	26.4	24.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94

Table 25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	1,584	1,585	1,587	1,736	1,806	2,092	2,514
Engineering	512	468	446	468	488	581	719
Sciences	1,072	1,117	1,141	1,268	1,318	1,511	1,795
Natural sciences	493	444	431	494	503	574	680
Physical science[1]	122	92	98	96	93	114	114
Mathematical science	60	34	51	85	66	78	75
Computer science	123	144	118	128	149	162	169
Biological science	126	126	120	136	146	151	138
Agricultural science	62	48	44	49	49	69	184
Social sciences	579	673	710	774	815	937	1,115
Social science	308	313	341	383	396	474	557
Psychology	271	360	369	391	419	463	558
Non-S&E[2]	6,197	6,548	6,908	7,948	8,450	9,279	10,663
Grand total	7,781	8,133	8,495	9,684	10,256	11,371	13,177
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	184	214	207	214	140	160	311
Engineering	11	22	32	23	0	1	86
Sciences	173	192	175	191	140	159	225
Natural sciences	99	62	65	83	27	47	68
Physical science[1]	13	19	21	16	9	12	18
Mathematical science	8	6	7	17	7	14	8
Computer science	0	7	0	0	0	4	5
Biological science	44	17	30	39	11	17	18
Agricultural science	34	17	7	11	0	0	19
Social sciences	74	130	110	108	113	112	157
Social science	33	25	25	31	32	30	36
Psychology	41	105	85	77	81	82	121
Non-S&E[2]	936	1,033	855	1,009	1,084	1,081	1,371
Grand total	1,120	1,247	1,062	1,223	1,224	1,241	1,682
	Percent from institutions in Puerto Rico						
Total science and engineering	11.6	13.5	13.0	12.3	7.8	7.6	12.4
Engineering	2.1	4.7	7.2	4.9	0	2	12.0
Sciences	16.1	17.2	15.3	15.1	10.6	10.5	12.5
Natural sciences	20.1	14.0	15.1	16.8	5.4	8.2	10.0
Physical science[1]	10.7	20.7	21.4	16.7	9.7	10.5	15.8
Mathematical science	13.3	17.6	13.7	20.0	10.6	17.9	10.7
Computer science	0	4.9	0	0	0	2.5	3.0
Biological science	34.9	13.5	25.0	28.7	7.5	11.3	13.0
Agricultural science	54.8	27.1	15.9	22.4	0	0	10.3
Social sciences	12.8	19.3	15.5	14.0	13.9	12.0	14.1
Social science	10.7	8.0	7.3	8.1	8.1	6.3	6.5
Psychology	15.1	29.2	23.0	19.7	19.3	17.7	21.7
Non-S&E[2]	15.1	15.8	12.4	12.7	12.8	11.6	12.9
Grand total	14.4	15.3	12.5	12.6	11.9	10.9	12.8

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 26. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	1,045	970	959	992	1,066	1,255	1,427
Engineering	444	394	373	378	408	480	582
Sciences	601	576	586	614	658	775	845
Natural sciences	318	282	275	294	309	341	414
Physical science[1]	88	65	63	73	64	76	80
Mathematical science	41	21	33	52	47	50	44
Computer science	91	100	93	84	98	104	120
Biological science	53	62	61	54	69	76	65
Agricultural science	45	34	25	31	31	35	105
Social sciences	283	294	311	320	349	434	431
Social science	187	176	178	196	218	282	290
Psychology	96	118	133	124	131	152	141
Non-S&E[2]	2,476	2,627	2,754	3,132	3,315	3,620	4,056
Grand total	3,521	3,597	3,713	4,124	4,381	4,875	5,483
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	93	103	103	80	48	56	154
Engineering	11	21	26	15	0	1	68
Sciences	82	82	77	65	48	56	86
Natural sciences	54	35	33	39	12	23	43
Physical science[1]	8	14	11	9	4	6	15
Mathematical science	4	2	3	9	4	11	5
Computer science	0	4	0	0	0	1	3
Biological science	15	5	14	13	4	5	8
Agricultural science	27	10	5	8	0	0	12
Social sciences	28	47	44	26	36	32	43
Social science	18	16	10	8	14	16	25
Psychology	10	31	34	18	22	16	18
Non-S&E[2]	276	313	262	306	350	346	432
Grand total	369	416	365	386	398	402	586
	Percent from institutions in Puerto Rico						
Total science and engineering	8.9	10.6	10.7	8.1	4.5	4.5	10.8
Engineering	2.5	5.3	7.0	4.0	0	.2	11.7
Sciences	13.6	14.2	13.1	10.6	7.3	7.1	10.2
Natural sciences	17.0	12.4	12.0	13.3	3.9	6.7	10.4
Physical science[1]	9.1	21.5	17.5	12.3	6.3	7.9	18.8
Mathematical science	9.8	9.5	9.1	17.3	8.5	22.0	11.4
Computer science	0	4.0	0	0	0	1.0	2.5
Biological science	28.3	8.1	23.0	24.1	5.8	6.6	12.3
Agricultural science	60.0	29.4	20.0	25.8	0	0	11.4
Social sciences	9.9	16.0	14.1	8.1	10.3	7.4	10.0
Social science	9.6	9.1	5.6	4.1	6.4	5.7	8.6
Psychology	10.4	26.3	25.6	14.5	16.8	10.5	12.8
Non-S&E[2]	11.1	11.9	9.5	9.8	10.6	9.6	10.7
Grand total	10.5	11.6	9.8	9.4	9.1	8.2	10.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 27. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	539	615	628	744	740	837	1,087
Engineering	68	74	73	90	80	101	137
Sciences	471	541	555	654	660	736	950
Natural sciences	175	162	156	200	194	233	266
Physical science[1]	34	27	35	23	29	38	34
Mathematical science	19	13	18	33	19	28	31
Computer science	32	44	25	44	51	58	49
Biological science	73	64	59	82	77	75	73
Agricultural science	17	14	19	18	18	34	79
Social sciences	296	379	399	454	466	503	684
Social science	121	137	163	187	178	192	267
Psychology	175	242	236	267	288	311	417
Non-S&E[2]	3,721	3,921	4,154	4,816	5,135	5,659	6,607
Grand total	4,260	4,536	4,782	5,560	5,875	6,496	7,694
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	91	111	104	134	92	104	157
Engineering	0	1	6	8	0	0	18
Sciences	91	110	98	126	92	104	139
Natural sciences	45	27	32	44	17	24	25
Physical science[1]	5	5	10	7	5	6	3
Mathematical science	4	4	4	8	3	3	3
Computer science	0	3	0	0	0	3	2
Biological science	29	12	16	26	7	12	10
Agricultural science	7	3	2	3	0	0	7
Social sciences	46	83	66	82	75	80	114
Social science	15	9	15	23	18	14	11
Psychology	31	74	51	59	59	66	103
Non-S&E[2]	660	720	593	703	734	735	939
Grand total	751	831	697	837	826	839	1,096
	Percent from institutions in Puerto Rico						
Total science and engineering	16.9	18.0	16.6	18.0	12.4	12.4	14.4
Engineering	0	1.4	8.2	8.9	0	0	13.1
Sciences	19.3	20.3	17.7	19.3	13.9	14.1	14.6
Natural sciences	25.7	16.7	20.5	22.0	7.7	10.3	9.4
Physical science[1]	14.7	18.5	28.6	30.4	17.2	15.8	8.8
Mathematical science	21.1	30.8	22.2	24.2	15.8	10.7	9.7
Computer science	0	6.8	0	0	0	5.2	4.1
Biological science	39.7	18.8	27.1	31.7	9.1	16.0	13.7
Agricultural science	41.2	21.4	10.5	16.7	0	0	8.9
Social sciences	15.5	21.9	16.5	18.1	16.5	15.9	16.7
Social science	12.4	6.6	9.2	12.3	10.1	7.3	4.1
Psychology	17.7	30.6	21.6	22.1	20.5	21.2	24.7
Non-S&E[2]	17.7	18.4	14.3	14.6	14.3	13.0	14.2
Grand total	17.6	18.3	14.6	15.1	14.1	12.9	14.2

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

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Table 28. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	357	382	468	492	513	542	548
Engineering	34	47	54	60	71	66	66
Sciences	323	335	414	432	442	476	482
Natural sciences	153	172	212	212	228	249	274
Physical science[1]	61	68	85	81	88	92	98
Mathematical science	11	11	10	9	12	16	13
Computer science	4	4	5	12	8	7	7
Biological science	62	71	89	95	102	114	131
Agricultural science	15	18	23	15	18	20	25
Social sciences	170	163	202	220	214	227	208
Social science	75	70	93	98	81	96	75
Psychology	95	93	109	122	133	131	133
Non-S&E[2]	351	312	369	375	396	431	481
Grand total	708	694	837	867	909	973	1,029
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	6	12	18	12	26	14	30
Engineering	0	0	0	0	0	0	0
Sciences	6	12	18	12	26	14	30
Natural sciences	5	5	8	5	5	6	12
Physical science[1]	4	4	6	3	4	4	7
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1	1	2	2	1	2	5
Agricultural science	0	0	0	0	0	0	0
Social sciences	1	7	10	7	21	8	18
Social science	1	1	0	1	5	0	1
Psychology	0	6	10	6	16	8	17
Non-S&E[2]	7	5	15	13	24	17	27
Grand total	13	17	33	25	50	31	57
	Percent from institutions in Puerto Rico						
Total science and engineering	1.7	3.1	3.8	2.4	5.1	2.6	5.5
Engineering	0	0	0	0	0	0	0
Sciences	1.9	3.6	4.3	2.8	5.9	2.9	6.2
Natural sciences	3.3	2.9	3.8	2.4	2.2	2.4	4.4
Physical science[1]	6.6	5.9	7.1	3.7	4.5	4.3	7.1
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1.6	1.4	2.2	2.1	1.0	1.8	3.8
Agricultural science	0	0	0	0	0	0	0
Social sciences	6	4.3	5.0	3.2	9.8	3.5	8.7
Social science	1.3	1.4	0	1.0	6.2	0	1.3
Psychology	0	6.5	9.2	4.9	12.0	6.1	12.8
Non-S&E[2]	2.0	1.6	4.1	3.5	6.1	3.9	5.6
Grand total	1.8	2.4	3.9	2.9	5.5	3.2	5.5

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 29. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	216	227	290	306	308	320	318
Engineering	29	39	45	50	56	54	60
Sciences	187	188	245	256	252	266	258
Natural sciences	105	120	138	152	151	162	174
Physical science[1]	43	47	55	68	62	70	75
Mathematical science	9	7	6	5	9	14	10
Computer science	4	1	4	11	7	6	7
Biological science	38	50	56	56	59	57	69
Agricultural science	11	15	17	12	14	15	13
Social sciences	82	68	107	104	101	104	84
Social science	50	38	55	52	46	59	41
Psychology	32	30	52	52	55	45	43
Non-S&E[2]	166	149	159	152	174	197	199
Grand total	382	376	449	458	482	517	517
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	4	3	6	3	11	7	11
Engineering	0	0	0	0	0	0	0
Sciences	4	3	6	3	11	7	11
Natural sciences	4	2	2	2	4	4	6
Physical science[1]	3	2	1	2	3	2	5
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1	0	1	0	1	2	1
Agricultural science	0	0	0	0	0	0	0
Social sciences	0	1	4	1	7	3	5
Social science	0	0	0	0	0	0	0
Psychology	0	1	4	1	7	3	5
Non-S&E[2]	2	2	3	4	3	3	7
Grand total	6	5	9	7	14	10	18
	Percent from institutions in Puerto Rico						
Total science and engineering	1.9	1.3	2.1	1.0	3.6	2.2	3.5
Engineering	0	0	0	0	0	0	0
Sciences	2.1	1.6	2.4	1.2	4.4	2.6	4.3
Natural sciences	3.8	1.7	1.4	1.3	2.6	2.5	3.4
Physical science[1]	7.0	4.3	1.8	2.9	4.8	2.9	6.7
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	2.6	0	1.8	0	1.7	3.5	1.4
Agricultural science	0	0	0	0	0	0	0
Social sciences	0	1.5	3.7	1.0	6.9	2.9	6.0
Social science	0	0	0	0	0	0	0
Psychology	0	3.3	7.7	1.9	12.7	6.7	11.6
Non-S&E[2]	1.2	1.3	1.9	2.6	1.7	1.5	3.5
Grand total	1.6	1.3	2.0	1.5	2.9	1.9	3.5

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 30. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1987-94, selected years

Field	1987	1989	1990	1991	1992	1993	1994
	Total, all Hispanic recipients						
Total science and engineering	141	155	178	186	205	222	230
Engineering	5	8	9	10	15	12	6
Sciences	136	147	169	176	190	210	224
Natural sciences	48	52	74	60	77	87	100
Physical science[1]	18	21	30	13	26	22	23
Mathematical science	2	4	4	4	3	2	3
Computer science	0	3	1	1	1	1	0
Biological science	24	21	33	39	43	57	62
Agricultural science	4	3	6	3	4	5	12
Social sciences	88	95	95	116	113	123	124
Social science	25	32	38	46	35	37	34
Psychology	63	63	57	70	78	86	90
Non-S&E[2]	185	163	210	223	222	234	282
Grand total	326	318	388	409	427	456	512
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	2	9	12	9	15	7	19
Engineering	0	0	0	0	0	0	0
Sciences	2	9	12	9	15	7	19
Natural sciences	1	3	6	3	1	2	6
Physical science[1]	1	2	5	1	1	2	2
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	0	1	1	2	0	0	4
Agricultural science	0	0	0	0	0	0	0
Social sciences	1	6	6	6	14	5	13
Social science	1	1	0	1	5	0	1
Psychology	0	5	6	5	9	5	12
Non-S&E[2]	5	3	12	9	21	14	20
Grand total	7	12	24	18	36	21	39
	Percent from institutions in Puerto Rico						
Total science and engineering	1.4	5.8	6.7	4.8	7.3	3.2	8.3
Engineering	.0	.0	.0	.0	.0	.0	.0
Sciences	1.5	6.1	7.1	5.1	7.9	3.3	8.5
Natural sciences	2.1	5.8	8.1	5.0	1.3	2.3	6.0
Physical science[1]	5.6	9.5	16.7	7.7	3.8	9.1	8.7
Mathematical science	.0	.0	.0	.0	.0	.0	.0
Computer science	.0	.0	.0	.0	.0	.0	.0
Biological science	.0	4.8	3.0	5.1	.0	.0	6.5
Agricultural science	.0	.0	.0	.0	.0	.0	.0
Social sciences	1.1	6.3	6.3	5.2	12.4	4.1	10.5
Social science	4.0	3.1	.0	2.2	14.3	.0	2.9
Psychology	.0	7.9	10.5	7.1	11.5	5.8	13.3
Non-S&E[2]	2.7	1.8	5.7	4.0	9.5	6.0	7.1
Grand total	2.1	3.8	6.2	4.4	8.4	4.6	7.6

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 31. Number of earned bachelor's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	20,577	20,098	19,150	18,294	17,113	16,987	16,654
U.S. citizens and permanent residents, total[1]	19,591	19,439	18,423	17,582	16,597	16,546	16,161
White, non-Hispanics	16,541	16,156	15,251	14,279	13,286	13,245	12,909
Asians	807	839	755	768	778	798	720
Underrepresented minorities, total	2,011	1,947	2,053	2,033	2,074	2,096	2,160
Black, non-Hispanics	1,269	1,208	1,200	1,227	1,239	1,132	1,249
Hispanics	664	634	784	731	747	853	813
American Indians or Alaskan Natives	78	105	69	75	88	111	98
U.S. citizens and permanent residents, unknown race/ethnicity	232	497	364	502	459	437	372
Nonresident aliens[2]	986	659	727	712	516	441	493
	Men						
Total, all recipients	18,429	17,999	17,113	16,329	15,309	15,089	14,835
U.S. citizens and permanent residents, total[1]	17,509	17,383	16,431	15,660	14,841	14,687	14,401
White, non-Hispanics	14,933	14,578	13,679	12,819	12,069	11,908	11,694
Asians	727	743	679	700	690	678	641
Underrepresented minorities, total	1,641	1,601	1,733	1,692	1,659	1,694	1,729
Black, non-Hispanics	983	941	953	968	949	892	959
Hispanics	594	567	722	655	629	710	687
American Indians or Alaskan Natives	64	93	58	69	81	92	83
U.S. citizens and permanent residents, unknown race/ethnicity	208	461	340	449	423	407	337
Nonresident aliens[2]	920	616	682	669	468	402	434
	Women						
Total, all recipients	2,148	2,099	2,037	1,965	1,804	1,898	1,819
U.S. citizens and permanent residents, total[1]	2,082	2,056	1,992	1,922	1,756	1,859	1,760
White, non-Hispanics	1,608	1,578	1,572	1,460	1,217	1,337	1,215
Asians	80	96	76	68	88	90	79
Underrepresented minorities, total	370	346	320	341	415	402	431
Black, non-Hispanics	286	267	247	259	290	240	290
Hispanics	70	67	62	76	118	143	126
American Indians or Alaskan Natives	14	12	11	6	7	19	15
U.S. citizens and permanent residents, unknown race/ethnicity	24	36	24	53	36	30	35
Nonresident aliens[2]	66	43	45	43	48	39	59

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94.

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Table 32. Number of earned master's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	883	1,135	1,194	1,188	1,278	1,555	1,547
U.S. citizens and permanent residents, total[1]	756	1,004	1,032	1,016	1,063	1,276	1,256
White, non-Hispanics	581	802	823	830	817	1,041	994
Asians	46	40	79	60	58	40	46
Underrepresented minorities, total	85	67	58	69	92	94	112
Black, non-Hispanics	42	55	44	47	64	61	72
Hispanics	17	10	9	19	23	25	37
American Indians or Alaskan Natives	26	2	5	3	5	8	3
U.S. citizens and permanent residents, unknown race/ethnicity	44	95	72	57	96	101	104
Nonresident aliens[2]	127	131	162	172	215	279	291
	Men						
Total, all recipients	678	892	888	888	971	1,172	1,164
U.S. citizens and permanent residents, total[1]	573	789	757	757	815	961	949
White, non-Hispanics	436	631	607	619	619	783	753
Asians	41	36	40	39	45	28	33
Underrepresented minorities, total	72	48	43	47	66	57	75
Black, non-Hispanics	35	40	32	29	46	32	48
Hispanics	11	7	7	17	16	18	27
American Indians or Alaskan Natives	26	1	4	1	4	7	0
U.S. citizens and permanent residents, unknown race/ethnicity	24	74	67	52	85	93	88
Nonresident aliens[2]	105	103	131	131	156	211	215
	Women						
Total, all recipients	205	243	306	300	307	383	383
U.S. citizens and permanent residents, total[1]	183	215	275	259	248	315	307
White, non-Hispanics	145	171	216	211	198	258	241
Asians	5	4	39	21	13	12	13
Underrepresented minorities, total	13	19	15	22	26	37	37
Black, non-Hispanics	7	15	12	18	18	29	24
Hispanics	6	3	2	2	7	7	10
American Indians or Alaskan Natives	0	1	1	2	1	1	3
U.S. citizens and permanent residents, unknown race/ethnicity	20	21	5	5	11	8	16
Nonresident aliens[2]	22	28	31	41	59	68	76

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94

Table 33. Number of earned bachelor's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	64,399	60,114	59,852	60,228	62,655	67,942	75,229
U.S. citizens and permanent residents, total[1]	63,622	59,367	59,056	59,250	61,792	66,929	74,200
White, non-Hispanics	53,903	49,854	48,405	48,798	51,328	55,482	61,624
Asians	1,535	1,698	1,823	1,981	2,229	2,469	3,024
Underrepresented minorities, total	6,456	6,474	6,890	6,881	7,048	7,758	8,225
Black, non-Hispanics	3,725	3,886	4,056	4,122	4,151	4,670	4,817
Hispanics	2,464	2,348	2,580	2,481	2,571	2,747	3,018
American Indians or Alaskan Natives	267	240	254	278	326	341	390
U.S. citizens and permanent residents, unknown race/ethnicity	1,728	1,341	1,938	1,590	1,187	1,220	1,327
Nonresident aliens[2]	777	747	796	978	863	1,013	1,029
	Men						
Total, all recipients	9,346	9,068	9,418	9,855	10,305	11,467	13,180
U.S. citizens and permanent residents, total[1]	9,085	8,842	9,176	9,572	10,057	11,189	12,912
White, non-Hispanics	7,597	7,339	7,521	7,717	8,230	9,081	10,627
Asians	329	398	392	468	541	561	694
Underrepresented minorities, total	931	899	1,030	1,094	1,032	1,285	1,315
Black, non-Hispanics	469	451	502	525	530	673	659
Hispanics	417	401	491	519	441	545	576
American Indians or Alaskan Natives	45	47	37	50	61	67	80
U.S. citizens and permanent residents, unknown race/ethnicity	228	206	233	293	254	262	276
Nonresident aliens[2]	261	226	242	283	248	278	268
	Women						
Total, all recipients	55,053	51,046	50,434	50,373	52,350	56,475	62,049
U.S. citizens and permanent residents, total[1]	54,537	50,525	49,880	49,678	51,735	55,740	61,288
White, non-Hispanics	46,306	42,515	40,884	41,081	43,098	46,401	50,997
Asians	1,206	1,300	1,431	1,513	1,688	1,908	2,330
Underrepresented minorities, total	5,525	5,575	5,860	5,787	6,016	6,473	6,910
Black, non-Hispanics	3,256	3,435	3,554	3,597	3,621	3,997	4,158
Hispanics	2,047	1,947	2,089	1,962	2,130	2,202	2,442
American Indians or Alaskan Natives	222	193	217	228	265	274	310
U.S. citizens and permanent residents, unknown race/ethnicity	1,500	1,135	1,705	1,297	933	958	1,051
Nonresident aliens[2]	516	521	554	695	615	735	761

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94

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Table 34. Number of earned master's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	18,580	19,410	20,482	21,398	23,213	25,823	28,314
U.S. citizens and permanent residents, total[1]	17,711	18,337	19,400	20,160	21,903	24,357	26,814
White, non-Hispanics	14,902	15,474	16,284	17,002	18,464	20,509	22,154
Asians	464	537	600	600	709	830	962
Underrepresented minorities, total	1,388	1,430	1,523	1,667	1,867	2,084	2,528
Black, non-Hispanics	811	814	886	1,004	1,092	1,251	1,431
Hispanics	518	535	558	572	685	718	967
American Indians or Alaskan Natives	59	81	79	91	90	115	130
U.S. citizens and permanent residents, unknown race/ethnicity	957	896	993	891	863	934	1,170
Nonresident aliens[2]	869	1,073	1,082	1,238	1,310	1,466	1,500
	Men						
Total, all recipients	3,915	4,239	4,554	4,499	4,714	5,248	5,874
U.S. citizens and permanent residents, total[1]	3,471	3,720	4,080	3,956	4,175	4,638	5,274
White, non-Hispanics	2,931	3,094	3,309	3,215	3,399	3,807	4,216
Asians	146	162	181	170	215	222	295
Underrepresented minorities, total	245	321	313	362	352	399	495
Black, non-Hispanics	134	173	158	194	171	207	220
Hispanics	99	128	135	146	158	172	250
American Indians or Alaskan Natives	12	20	20	22	23	20	25
U.S. citizens and permanent residents, unknown race/ethnicity	149	143	277	209	209	210	268
Nonresident aliens[2]	444	519	474	543	539	610	600
	Women						
Total, all recipients	14,665	15,171	15,928	16,899	18,499	20,575	22,440
U.S. citizens and permanent residents, total[1]	14,240	14,617	15,320	16,204	17,728	19,719	21,540
White, non-Hispanics	11,971	12,380	12,975	13,787	15,065	16,702	17,938
Asians	318	375	419	430	494	608	667
Underrepresented minorities, total	1,143	1,109	1,210	1,305	1,515	1,685	2,033
Black, non-Hispanics	677	641	728	810	921	1,044	1,211
Hispanics	419	407	423	426	527	546	717
American Indians or Alaskan Natives	47	61	59	69	67	95	105
U.S. citizens and permanent residents, unknown race/ethnicity	808	753	716	682	654	724	902
Nonresident aliens[2]	425	554	608	695	771	856	900

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: Data on race/ethnicity were collected biennially from 1977 through 1989 and annually thereafter. Data on race/ethnicity of degree recipients are collected on broad fields of study only; therefore, these data could not be adjusted to the exact field taxonomies used by NSF.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

Table 35. Number of earned doctoral degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	800	974	956	1,041	1,112	1,197	1,296
U.S. citizens and permanent residents, total[1]	646	756	756	839	855	939	1,050
White, non-Hispanics	553	684	662	720	735	800	867
Asians	35	22	39	44	52	45	94
Underrepresented minorities, total	45	43	50	61	56	89	77
Black, non-Hispanics	31	29	32	40	38	59	46
Hispanics	11	11	17	16	13	24	25
American Indians or Alaskan Natives	3	3	1	5	5	6	6
U.S. citizens and permanent residents, unknown race/ethnicity	13	7	5	14	12	5	12
Nonresident aliens[2]	96	134	166	171	226	214	230
Citizenship unknown	58	84	34	31	31	44	16
	Men						
Total, all recipients	325	345	364	373	402	420	453
U.S. citizens and permanent residents, total[1]	231	225	229	252	226	260	328
White, non-Hispanics	191	195	203	199	177	208	258
Asians	18	13	17	21	22	22	48
Underrepresented minorities, total	16	13	17	27	21	26	19
Black, non-Hispanics	12	9	14	17	14	18	11
Hispanics	3	4	2	7	4	8	7
American Indians or Alaskan Natives	1	0	1	3	3	0	1
U.S. citizens and permanent residents, unknown race/ethnicity	6	4	2	5	6	4	3
Nonresident aliens[2]	61	87	101	101	159	138	115
Citizenship unknown	33	33	24	20	17	22	10
	Women						
Total, all recipients	475	629	592	668	710	777	843
U.S. citizens and permanent residents, total[1]	415	531	517	587	629	679	722
White, non-Hispanics	362	489	459	521	558	592	609
Asians	17	9	22	23	30	23	46
Underrepresented minorities, total	29	30	33	34	35	63	58
Black, non-Hispanics	19	20	18	23	24	41	35
Hispanics	8	7	15	9	9	16	18
American Indians or Alaskan Natives	2	3	0	2	2	6	5
U.S. citizens and permanent residents, unknown race/ethnicity	7	3	3	9	6	1	9
Nonresident aliens[2]	35	47	65	70	67	76	115
Citizenship unknown	25	51	10	11	14	22	6

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 36. First-professional degrees awarded, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	72,120	71,318	71,551	72,636	74,801	76,068	76,000
U.S. citizens and permanent residents, total[1]	71,248	70,358	70,515	71,550	73,459	74,520	74,563
White, non-Hispanics	61,291	59,597	59,376	59,692	59,869	60,338	58,476
Asians	2,222	2,903	3,299	3,772	4,757	5,107	5,759
Underrepresented minorities, total	6,130	6,025	6,549	6,984	7,334	8,075	8,314
Black, non-Hispanics	3,341	3,017	3,337	3,535	3,568	4,078	4,329
Hispanics	2,491	2,746	2,959	3,191	3,472	3,632	3,623
American Indians or Alaskan Natives	298	262	253	258	294	365	362
U.S. citizens and permanent residents, unknown race/ethnicity	1,605	1,833	1,291	1,102	1,499	1,000	2,014
Nonresident aliens[2]	872	960	1,036	1,086	1,342	1,548	1,437
	Men						
Total, all recipients	46,841	45,399	44,309	44,226	45,459	45,565	45,068
U.S. citizens and permanent residents, total[1]	46,217	44,728	43,607	43,464	44,511	44,462	44,053
White, non-Hispanics	40,314	38,499	37,367	36,926	37,089	36,896	35,526
Asians	1,391	1,772	1,946	2,171	2,728	2,831	3,139
Underrepresented minorities, total	3,561	3,375	3,501	3,663	3,831	4,122	4,155
Black, non-Hispanics	1,798	1,568	1,627	1,653	1,620	1,777	1,851
Hispanics	1,583	1,661	1,738	1,868	2,054	2,156	2,088
American Indians or Alaskan Natives	180	146	136	142	157	189	216
U.S. citizens and permanent residents, unknown race/ethnicity	951	1,082	793	704	863	613	1,233
Nonresident aliens[2]	624	671	702	762	948	1,103	1,015
	Women						
Total, all recipients	25,279	25,919	27,242	28,410	29,342	30,503	30,932
U.S. citizens and permanent residents, total[1]	25,031	25,630	26,908	28,086	28,948	30,058	30,510
White, non-Hispanics	20,977	21,098	22,009	22,766	22,780	23,442	22,950
Asians	831	1,131	1,353	1,601	2,029	2,276	2,620
Underrepresented minorities, total	2,569	2,650	3,048	3,321	3,503	3,953	4,159
Black, non-Hispanics	1,543	1,449	1,710	1,882	1,948	2,301	2,478
Hispanics	908	1,085	1,221	1,323	1,418	1,476	1,535
American Indians or Alaskan Natives	118	116	117	116	137	176	146
U.S. citizens and permanent residents, unknown race/ethnicity	654	751	498	398	636	387	781
Nonresident aliens[2]	248	289	334	324	394	445	422

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94

Table 37. First-professional degrees awarded in health fields, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	29,400	29,518	28,787	28,183	28,303	29,475	29,680
U.S. citizens and permanent residents, total[1]	28,938	29,036	28,252	27,677	27,600	28,693	28,861
White, non-Hispanics	24,467	24,094	23,027	21,958	21,333	22,076	21,730
Asians	1,394	1,978	2,290	2,472	2,909	3,317	3,637
Underrepresented minorities, total	2,623	2,591	2,724	2,777	2,840	2,915	3,000
Black, non-Hispanics	1,269	1,159	1,251	1,285	1,288	1,350	1,437
Hispanics	1,217	1,323	1,373	1,381	1,417	1,426	1,432
American Indians or Alaskan Natives	137	109	100	111	135	139	131
U.S. citizens and permanent residents, unknown race/ethnicity	454	373	211	470	518	385	494
Nonresident aliens[2]	462	482	535	506	703	782	819
	Men						
Total, all recipients	20,011	19,596	18,562	17,777	17,694	17,704	17,565
U.S. citizens and permanent residents, total[1]	19,708	19,283	18,235	17,449	17,220	17,194	17,034
White, non-Hispanics	16,925	16,298	15,232	14,207	13,607	13,608	13,243
Asians	870	1,217	1,363	1,440	1,718	1,859	1,972
Underrepresented minorities, total	1,599	1,506	1,510	1,479	1,587	1,490	1,504
Black, non-Hispanics	691	581	606	573	604	556	582
Hispanics	822	861	847	841	907	858	840
American Indians or Alaskan Natives	86	64	57	65	76	76	82
U.S. citizens and permanent residents, unknown race/ethnicity	314	262	130	323	308	237	315
Nonresident aliens[2]	303	313	327	328	474	510	531
	Women						
Total, all recipients	9,389	9,922	10,225	10,406	10,609	11,771	12,115
U.S. citizens and permanent residents, total[1]	9,230	9,753	10,017	10,228	10,380	11,499	11,827
White, non-Hispanics	7,542	7,796	7,795	7,751	7,726	8,468	8,487
Asians	524	761	927	1,032	1,191	1,458	1,665
Underrepresented minorities, total	1,024	1,085	1,214	1,298	1,253	1,425	1,496
Black, non-Hispanics	578	578	645	712	684	794	855
Hispanics	395	462	526	540	510	568	592
American Indians or Alaskan Natives	51	45	43	46	59	63	49
U.S. citizens and permanent residents, unknown race/ethnicity	140	111	81	147	210	148	179
Nonresident aliens[2]	159	169	208	178	229	272	288

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

Health fields include: Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry, and Veterinary Medicine.

SOURCES: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, and IPEDS Completions Surveys, 1987-94.

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Table 38. First-professional degrees awarded in non-health fields, by race/ethnicity and sex of recipient: 1987-94

Citizenship and race/ethnicity	1987	1989	1990	1991	1992	1993	1994
	Total						
Total, all recipients	42,720	41,800	42,764	44,453	46,498	46,593	46,320
U.S. citizens and permanent residents, total[1]	42,310	41,322	42,263	43,873	45,859	45,827	45,702
White, non-Hispanics	36,824	35,503	36,349	37,734	38,536	38,262	36,746
Asians	828	925	1,009	1,300	1,848	1,790	2,122
Underrepresented minorities, total	3,507	3,434	3,825	4,207	4,494	5,160	5,314
Black, non-Hispanics	2,072	1,858	2,086	2,250	2,210	2,728	2,892
Hispanics	1,274	1,423	1,586	1,810	2,055	2,206	2,191
American Indians or Alaskan Natives	161	153	153	147	159	226	231
U.S. citizens and permanent residents, unknown race/ethnicity	1,151	1,460	1,080	632	981	615	1,520
Nonresident aliens[2]	410	478	501	580	639	766	618
	Men						
Total, all recipients	26,830	25,803	25,747	26,449	27,765	27,861	27,503
U.S. citizens and permanent residents, total[1]	26,509	25,445	25,372	26,015	27,291	27,268	27,019
White, non-Hispanics	23,389	22,201	22,135	22,719	23,482	23,288	22,283
Asians	521	555	583	731	1,010	972	1,167
Underrepresented minorities, total	1,962	1,869	1,991	2,184	2,244	2,632	2,651
Black, non-Hispanics	1,107	987	1,021	1,080	1,016	1,221	1,269
Hispanics	761	800	891	1,027	1,147	1,298	1,248
American Indians or Alaskan Natives	94	82	79	77	81	113	134
U.S. citizens and permanent residents, unknown race/ethnicity	637	820	663	381	555	376	918
Nonresident aliens[2]	321	358	375	434	474	593	484
	Women						
Total, all recipients	15,890	15,997	17,017	18,004	18,733	18,732	18,817
U.S. citizens and permanent residents, total[1]	15,801	15,877	16,891	17,858	18,568	18,559	18,683
White, non-Hispanics	13,435	13,302	14,214	15,015	15,054	14,974	14,463
Asians	307	370	426	569	838	818	955
Underrepresented minorities, total	1,545	1,565	1,834	2,023	2,250	2,528	2,663
Black, non-Hispanics	965	871	1,065	1,170	1,264	1,507	1,623
Hispanics	513	623	695	783	908	908	943
American Indians or Alaskan Natives	67	71	74	70	78	113	97
U.S. citizens and permanent residents, unknown race/ethnicity	514	640	417	251	426	239	602
Nonresident aliens[2]	89	120	126	146	165	173	134

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of preprofessional training.

Non-health fields include: Law, Divinity/Ministry, and Rabbinical and Talmudic Studies.

SOURCES: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics; and IPEDS Completions Surveys, 1987-94.

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